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1938

BIBLIOGRAPHY

OF

OIL OF ROSE

BY

EUNICE RUTH BONOW

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SCHOOL OF PHARMACY

A THESIS SUBMITTED FOR THE DEGREE OF  
BACHELOR OF SCIENCE  
(Pharmacy)

UNIVERSITY OF WISCONSIN

1938

Saussure, T.

1820

Combustion de l'essence de rose

Ann. d. Chim. et d. Phys., 13, p. 337 (Tschirch, Handb. der Pharmak. 1 ed., v. 2, p. 810; Pharm. Journ. 28, p. 148.)

Discusses the physical constants of the fluid portion and the concrete portion of oil of rose.

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Göbel, F.

1830

Chemische Analyse des echten Rosenöls

Schweigger's Journ. f. Chemie, etc., 58, p. 473; Edin. New Philos. Journ., 12, p. --- (Am. Journ. Pharm., 4, p. 82)

Properties of true oil of rose are listed.

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Recluz, C.

1830

Table of the Quantity of Volatile Oils  
Yielded by Different Plants.

Am. Journ. Pharm., 1, p. 134.

Data on the volatile oil obtained from *Rosa centifolia* is included in the table giving the scientific name, parts used, quantity of volatile oil obtained from 25 pounds, colour, and observations.

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O'Shaughnessy, W.B.

1842

Essential Oil, Otto, A'ther, or Utr of Roses

Bengal Dispens., 1 ed., v. 1, p. 327 (Pharm. Journ., 2, p. 663)

Discusses the cultivation of roses, and the method of manufacture of attar of roses in India.

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Landerer, X.

1843

On the Preparation of Otto of Roses.

Annals of Chymistry & Practical Pharm. v. 1, p. 246  
(Am. Journ. Pharm., 26, p. 468).

Discusses the cultivation of roses in the region of Mecco, Arabia, the production, and the uses of oil of rose in the East.

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Wood, G.B. & Bache, F.

1843

Oleum Rosae. U.S.

Dispens. U.S.Am., 5 ed., p. 498; Ibid., 6 ed., p. 498; Ibid., 7 ed., p. 498; Ibid., 8 ed., p. 498; Ibid., 9 ed., p. 517; Ibid., 10 ed., p. 517; Ibid., 11 ed., p. 542; Ibid., 12 ed., p. 597; Ibid., 13 ed., p. 613.

Gives the pharmacopoeial definition, botanical origin, synonyms, places of production, allied products, physieal properties, adulterants, and uses of oil of rose.

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Redwood, T.

1847

Oleum Rosae, Attar or Otto of Roses.

Supplement to the Pharm., 1 ed., p. 885; Ibid., 3 ed., p. 861 (Pharm. Journ., 18, p. 505).

Gives the method of preparation, botanical sources, yield, and properties of oil of rose.

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Redwood, T.

1847

Oleum Rosaceum. Oleum rosae. Oil of roses by infusion.

Supplement to the Pharm., 1 ed., p. 885; Ibid., 3 ed., p. 861.

Gives detailed directions for the preparation of oil of rose by infusion with olive oil.

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Note sur les moyens de reconnaître la  
pureté de l'essence de roses.

Journ. de Pharm., 42, p. 345 (Chem. Gaz., 7, p. 302;  
Am. Journ. Pharm., 21, p. 318; Wood & Bache, Dispens.  
U.S.Am., 9 ed., p. 518; Ibid., 10 ed., p. 518; Ibid.,  
11 ed., p. 543; Ibid., 12 ed., p. 597; Ibid., 13 ed.,  
p. 614; Ibid., 14 ed., p. 639; Ibid., 15 ed., p. 1037;  
Ibid., 16 ed., p. 1078; Ibid., 17 ed., p. 963; Ibid.,  
18 ed. p. 962; Ibid., 19 ed., p. 871; Ibid., 20 ed.,  
p. 787.

Gives the physical properties, adulterants,  
and specific tests using the reagents - Iodine, Nitrous  
Acid and Sulfuric Acid, for the determination of the  
purity of Otto of Roses.

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Landerer, X.

1851

On the Preparation of Volatile Oil of  
Roses in the East.

Pharm. Journ. 11, p. 105; Am. Journ. Pharm., 23, p. 335.

Describes the methods of extracting the oil  
of rose as practiced in India, in China, and in  
Damascus and other parts of Asia Minor. Discusses 2  
varieties of oil of rose, as distinguished by the  
pharmacologists, namely, the Indian, and that from Levant.

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King, J. & Newton, R.S.

1852

Oleum Rosae.

Eclect. Dispens., 1 ed., p. 520.

Gives the official English title, synonym  
and use of Oil of Rose.

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1852

(Letter on Opium, Scammony and Oil of Roses)

N.Y. Journ. Pharm., 1, p. -- ; Am. Journ. Pharm., 24, p. 165.

(Discusses reasons for the difference in the temperature at which the genuine oil of rose congeals; methods of adulteration of the Oil of Rose and the various prices of the various qualities of the oils.)

The original was not available.

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Piesse, S.

1854

On Perfumery - Rose.

Am. Journ. Pharm., 26, p. 468.

Discusses the cultivation of roses; the manufacture of "esprit de Rose" in France; the cultivation and manufacture of otto of rose in England. Formulas for the preparation of Esprit de Rose Triple, Essence of Moss Rose, Essence of White Rose, and Essence of Tea Rose are given.

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Sudda, F.D.

1856

Collection de Matiere medicale, offerte a  
L'Ecole superieure de pharmacie de Paris.

Journ. de Pharm. et de Chimie, 62, p. 310 (Pharm. Journ.,  
18, p. 506.)

Includes in a table, the French name, Turkish name and the province from which it is produced, of oil of rose.

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Hanbury, D.

1859

On Otto of Rose.

Pharm. Journ., 18, p. 504; Am. Journ. Pharm., 31, p. 332  
(Wood & Bache, Dispens. U.S.Am., 12 ed., p. 597; Ibid.,  
13 ed., p. 614; Ibid., 14 ed., p. 639; Am. Journ. Pharm.  
31, p. 326; Pharm. Journ., 23, p. 500; Ibid., 28, p.148;  
Ibid., 54, p. 1042; Am. Drugg. Circ., 3, p. 129;  
Flückiger, F. & Hanbury, D., Pharmacog., 1 ed., p. 236.)

Gives detailed information regarding the production, adulteration and chemical characteristics of Otto of Rose.

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Mackay,---

1859

Commercial Otto or Attar of Roses.

Pharm. Journ., 18, p. 413; Am. Journ. Pharm., 31, p. 252.

Gives an account of the adulteration of oil of rose in Turkey, and method of testing for the presence of the adulterant.

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Martin, S.

1859

(Practical Observations on the Preservation and Distillation of Roses and Orange Flowers.)

Bulletin General de Therapeutique, ---, p. --- (Am. Drugg. Circ., 3, p. 81; Pharm. Journ., 18, p. 429).

(Gives methods employed by the ancient Greeks and Romans and during the middle ages for the preservation of roses and the oil of rose (rosated oil)).

The original was not available.

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Mercantile House at Constantinople

1859

Manufacture of Otto of Roses.

Pharm. Journ., 19, p. 264; Am. Journ. Pharm., 32, p. 66.

Lists the quality of otto produced according to the places where it is produced, also the number of stills in each locality. Compares the amount of otto of roses produced then with the amount of previous productions and the reasons for the decrease.

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Smith, J.L.

1859

On the Manufacture of the Otto of Rose at Kisanlik in European Turkey.

Am. Journ. Pharm., 31, p. 324 (Wood & Bache, Dispens. U.S.Am., 12 ed., p. 591; Ibid., 13 ed., p. 613; Ibid., 14 ed., p. 639; Am. Drugg. Circ., 3, p. 198.)

Gives information on the cultivation of the rose in the Balkan Mountains, collection of petals, manufacture of the oil of rose, adulterants and cost of manufacture of the pure otto of rose at Kisanlik.

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Manufacture of Otto of Roses.

Pharm. Journ., 19, p. 264.

Gives the quantity of oil of rose distilled by the various districts in the Balkan mountains in 1859.

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Hager, H.

1864

(Test for Otto of Rose.)

Zeitschr. f. Analyt. Chem., 4, p. 479 (Chem. News, 13, p. --; Pharm. Journ., 25, p. 424; Wood & Bache, Dispens. U.S. Am., 13 ed., p. 614; Ibid., 14 ed., p. 640; Ibid., 15 ed., p. 1037; Ibid., 16 ed., p. 1079; Am. Journ. Pharm., 37, p. 490.)

(Discusses the sulfuric acid test for determining the purity of otto of rose.)

The original was not available.

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King, J.

1864

Oleum Rosae.

Am. Dispens., 6 ed., p. 1211; Ibid., 8 ed., p. 1102; Ibid., 10 ed., p. 1102; Ibid., 15 ed., p. 1102; Ibid., 16 ed., p. 1102.

Gives the English and German synonyms, the history, methods of production, properties, adulterants, uses and official preparations, of oil of rose.

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Redwood, T.

1866

On a Recently Proposed Test for  
Adulteration in Otto of Roses.

Pharm. Journ., 25, p. 499 (Wood & Bache, Dispens., U.S. Am., 13 ed., p. 614; Ibid., 17 ed., p. 963.)

Gives results obtained by applying a test proposed by D. Hanbury for determining the adulteration of otto of roses.

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## Rosenöl.

Neues Jahrbuch f. Pharm., 27, p. 1; Pharm. Journ., 27, p. 286 (Wood & Bache, Dispens. U.S.Am., 13 ed., p. 614; Ibid., 14 ed., p. 639; Ibid., 15 ed., p. 1036; Ibid., 16 ed., p. 1077; Ibid., 17 ed., p. 962; Ibid., 18 ed., p. 961; Ibid., 19 ed., p. 870; Ibid., 20 ed., p. 786; Tschirch, Handb., der Pharmak., 1 ed., v. 2, p. 810; Pharm. Journ., 28, p. 148; Ibid., 40, p. 129; Ibid., 27, p. 246; Proc. Am. Pharm. Assoc., 19, p. 333.)

Gives definition of oil of rose, cultivation of rose, collection of flowers, distillation, factors influencing production, properties, adulterants and transportation of oil of rose; also a detailed account as to the preparation of Oil of Geranium used as an adulterant.

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Blunt, -----

1867

## Rose Crop.

Drugg. Circ., 11, p. 262.

Gives an account of rose fields in the vicinity of Adrianople and the production of the oil of rose there.

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Flückiger, F.A.

1869

## Observations and Experiments on Rose Oil.

Pharm. Journ., 28, p. 147 (Journ. de Pharm. et Chim., 83, p. 30; Journ. de Chim. Med., 4, p. 566; Wood & Bache, Dispens., U.S.AM., 14 ed., p. 640; Ibid., 15 ed., p. 1037; Proc. Am. Pharm. Assoc., 17, p. 181; Flückiger & Hanbury, Pharmacog., 1 ed., p. 236).

Chemical composition, properties of oil of rose, microscopic examination and action of reagents upon rose-stearoptene, the similarity of rose-stearoptene to succinic acid is noted.

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Grund, ----

1871

Zur Prüfung des Rosenöls.

N.Jahrb. f. Pharm., 35, p. 165 (Am. Journ.Pharm., 43, p. 354; Drugg. Circ., 15, p. 143).

"Attar of Rose is often adulterated with alcohol, which raises the congealing point of the attar. The adulteration is detected by agitation with lukewarm water in the usual manner."

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1871

Fashionable Odors - How they are Made.

Drugg. Circ., 15, p. 170.

Gives a short description of the manufacture of Attar of Rose.

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Baur, R.

1872

Ueber Rosenöl.

Polyt. Journ., 204, p. 253 (Chem. Central-Blatt, 43, p. 405; Pharm. Centralhalle, 13, p. 313; Proc. Am. Pharm. Assoc., 21, p. 253.)

Gives the method used and the results obtained in the study of the elaeoptene of oil of rose.

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Gladstone, J.H.

1872

On Essential Oils - Part II.

Journ. Chem. Soc., 25, p. 12 (Fluckiger & Hanbury, Pharmacog., 1 ed., p. 236.)

In a discussion of various essential oils, includes the physical constants of oil of rose.

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Hochstetter, F.V.

1872

Reise durch Rumelrin im Sommer 1869.

Muthl. Geogr. Gesell., 15, p. 112 (Vienna Neue Freie Presse, --, p. --; Pharm. Journ., 31, p. 1051; Wood & Wood, Dispens. U.S.Am., 14 ed., p. 639; Ibid., 15 ed., p. 1036; Ibid., 16 ed., p. 1077; Ibid., 17 ed., p. 962; Ibid., 18 ed., p. 961; Ibid., 19 ed., p. 870; Ibid., 20, ed., p. 786; Am. Journ. Pharm., 44, p. 513; Canadian Pharm. Journ.---, p.---; Proc. A m. Pharm. Assoc., 21, p. 252; Drugg. Circ., 17, p. 77; Ibid., 17, p. 179.)

Gives an historical sketch, cultivation, production, properties, adulterants, transportation, prices, taxes, customs, duty of oil of rose, also its manufacture in Turkey.

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Dupuis, ---

1873

The Rose Harvest in Adrianople.

Pharm. Journ., 33, p. 425 (Proc. Am. Pharm. Assoc., 22, p. 148.)

Discusses the climatic conditions and their effect upon the rose crop of the year, the method employed for testing the purity of the different qualities of the oil, the adulteration of the oil, the exporting of the oil and the principal localities where the oil is manufactured.

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Bedford, P.W.

1874

Report of the Committee on the Drug Market.

Proc. Am. Pharm. Assoc., 22, p. 639.

"Oil of Rose is likely to be advanced in price, the producers averring that the yield is light this year."

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Flückiger, F.A. & Hanbury, D.

1874

Oleum Rosae.

Pharmacographia, 1 ed., p. 233; Ibid., 2 ed., p. 262.

Gives the botanical origin, history, production, description, chemical composition, uses and adulteration of oil of rose.

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Smith, P.F.

1874

The Oils of Chinese Pharmacy and Commerce.

Pharm. Journ., 34, p. 62; Am. Journ. Pharm., 46, p. 435.

"Oil of Roses - This essential oil is used mainly as a scent for hair oil, so plentifully used by all Chinese Women."

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Committee on the Centennial Exhibition.

1876

Essential Oils, Perfumery, etc.

Proc. Am. Pharm. Assoc., 24, p. 823.

Describes the cultivation of roses at Grasse and the type of rose oil produced there.

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(Miller,--)

1876

Minutes of the Pharmaceutical Meeting.

Am. Journ. Pharm., 46, p. 227.

"Dr. Miller exhibited spermaceti obtained from oil of rose, one fluidounce, purchased as the best oil in the market, having yielded eight grains of the adulterant."

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Douglas, J.

1878

(Notes on Indian Roses and their Products)

Gardeners' Chronicle, 32, p.--(Drugg. Circ., 22, p.193)

(Gives an historical sketch of the production of oil of rose in India and the present methods employed in its preparation.)

The original was not available.

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Stille, A. & Maisch, J.M.

1879

Oleum Rosae, U.S. - Oil of Rose.

Nat. Dispens., 1 ed., p. 991; Ibid., 2 ed., p. 1011.

Gives the official English, French, and German synonyms, botanical origin, production, properties, chemical composition, adulterants and medical uses of oil of rose.

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Wood, G.B. & Wood, H.

1879

Oleum Rosae, U.S.

Dispens. U.S.Am., 14 ed., p. 638; Ibid., 15 ed., p. 1036; Ibid., 16 ed., p. 1077; Ibid., 17 ed., p. 962; Ibid., 18 ed., p. 961.

Give the pharmacopoeial definition, botanical origin, synonyms, places of production, physical properties, adulterants, test to determine the adulterants, microscopic examination, and uses of oil of rose.

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1880

Otto of Roses.

Drugg. Circ., 24, p. 132.

Gives data regarding the importation of otto of roses from Philipopolis in 1876.

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1880

(The Production of Attar of Rose)

Rundschau f. d. Interesse d. Pharm. Ch. etc., 6, p. 546  
(Pharm. Zeitschrift f. Russland, 20, p. 625; Am. Journ. Pharm., 53, p. 14)

(The commercial success of the production of the attar of roses, the quantity obtained and exportation.)

The original was not available.

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Dudley, W.L.

1881

Chemical Examination of Volatile Oils.

Pharmacist, 14, p. 164. (Drugg. Circ., 25, p. 115.)

Gives the properties of pure oil of rose and the common adulterants used.

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Ganswindt, A.

1881

Prüfung des Rosenöls.

Seifensieder-zeitung, 8, p. 32; Am. Journ.Pharm., 54, p.250. (Wood & Wood, Dispens.U.S.AM., 15 ed., p. 1037; Ibid., 16 ed., p.1078; Ibid., 17 ed., p.963; Ibid., 18 ed., p. 963; Ibid., 19 ed., p.871; Ibid., 20 ed., p.787; Jahresb. der Pharm., 42, p. 617; Pharm. Centralhl., 22, p. 172; Proc. Am.Pharm. Assoc., 29, p. 290.)

Gives 3 tests to determine the purity of oil of rose.

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Lock, C.G.W.

1881

Rose Oil, or Otto of Roses.

Journ.Soc.Arts, ---, p.881; Pharm.Journ., 40, p.899; Am. Journ.Pharm., 53, p.366. (Proc.Am.Pharm.Assoc., 29, p.289.)

Discusses the botanical origin, chief constituents the methods employed in Persia, India, Mediterranean countries of Africa, and France for the production of oil of rose. The cultivation of roses in Bulgaria, production, properties, tests for purity, adulterants and commercial value of oil of rose are also considered.

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(Editor)

1883

Nachwies einer Rosenöl - Verfälschung.

Rundschau für die Interessen der Pharmacie, etc., 9, p.199. (N.Rem., 12, p.210; Wood, Remington, Sadtler, Dispens.U.S.Am., 16 ed., p.1079; Ibid., 17 ed., p.964; Ibid., 18 ed., p. 963; Ibid., 19 ed., p. 872; Jahresber.der Pharm., 44, p.704; Proc. Am.Pharm.Assoc., 32, p. 254; Drugg. Circ., 26, p. 86; New Idea, 6, p.339.)

Gives a method for testing oil of rose with sulfuric acid to determine whether it has been adulterated with geranium pelargonium or palm-rose oil, also another test to determine whether oil of rose is

adulterated with fatty oils.)

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1883

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Oil of Rose.

New Idea, 5, p. 249.

"The amount of stearopten varies very greatly, all the way between 7 & 60 per cent."

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Schimmel & Co.

1884

(German Oil of Rose.)

Bericht., ---, p. ---- (Pharm. Journ., 44, p. 243.)

(A report of the oil of rose first produced from the flowers grown in Germany.)

The original was not available.

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Stille, A. & Maisch, J.M.

1884

Oleum Rosae, U.S., P.G.-Oil of Rose.

Nat. Dispens., 3 ed., p. 1081; Ibid., 5 ed., p. 1147.

Give the Official English, French, and German synonyms, the official definition, botanical origin, methods and places of production, properties, chemical composition, adulterants, tests for purity, and medical uses of oil of rose.

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1884

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(German Oil of Rose)

Rundschau f. d. Interesse d. Pharm. Ch., 10, p. 676  
(Am. Journ. Pharm., 57, p. 27; Proc. Am. Pharm. Assoc.,  
33, p. 262.)

The German Oil of Rose has an odor stronger than that of the Turkish oil (chiefly, perhaps because it is pure), and its freezing point higher. Turkish Oil freezes at 21° C., while the German freezes already at 32° C."

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## Prüfung des Rosenöls.

Archiv. d. Pharm., 223, p. 104 (Wood & Wood, Dispens. U.S.Am., 16 ed., p. 1079; Ibid., 17 ed., p. 963; Ibid., 18 ed., p. 963; Ibid., 19 ed., p. 871; Am. Journ. Pharm., 57, p. 242; Proc. Am. Pharm. Assoc., 33, p. 262.)

Gives the results obtained when he tested rose oils according to the directions given in the German Pharmacopoeia.

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Maisch, J.M.

1885

## Oil of Rose.

Am. Journ. Pharm., 57, p. 108.

Gives the physical properties of the oil of rose distilled by Schimmel & Co. from roses grown in Germany as observed by Baur and Hanbury.

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1885

## (German Oil of Rose.)

Mon. de prod. Chim., 23, p. 355 (Drugg. Circ., 29, p. 170.)

(Gives the properties of the oil of rose distilled in Germany.)

The original was not available.

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Heppe, G.

1886

## (Tests for the Purity of Oil of Rose.)

Chem. Tech. Central. Anz., ---, p. --- (Drugg. Circ., 30, p. 269; Wood & Bache, Dispens. U.S.Am., 16 ed., p. 1079; Ibid., 17 ed., p. 964; Ibid., 18 ed., p. 963; Ibid., 19 ed., p. 872; Proc. Am. Pharm. Assoc., 35, p. 256; New Idea 9, p. 542; Drugg. Circ., 31, p. 84.)

(Gives the results obtained by using the nitric acid test for the presence of rose-geranium oil, iodine test, phenolphthalein to indicate acidity, Hager's test, and lastly the solidifying test for oil of rose.)

The original was not available.

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Schimmel & Co. 1886

Rosen - Oel, deutsches.

Bericht., Apr., p. 26 (Wood & Bache, Dispens. U.S.Am., 16 ed., p. 1078; Ibid., 17 ed., p. 962.)

Give the developments occurring in the rose industry in Germany.

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Schimmel & Co. 1886

Rosen - Oel, türk.

Bericht., Apr., p. 27.

Gives the effect of climatic conditions in Turkey upon the yield of the otto of rose distilled there.

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Schimmel & Co. 1886

Rosen - Oel, deutsches, von unserer Destillation.

Bericht., Oct., p. 25 (Pharm. Journ., 47, p. 343.)

Give further information regarding the progress of the experiment in rose cultivation near Leipzig for the purpose of distillation.

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Schimmel & Co. 1886

Rosen - Oel, türkisches.

Bericht., Oct., p. 27.

Give the yield of otto of rose in Turkey.

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 Deutsches Rosenöl.

Pharm. Handelsbl., v.--, p.45; Pharm. Rundschau, 4, p.64  
 (Pharm. Journ., 45, p. 839; Proc. Am. Pharm. Assoc., 34,  
 p. 545.)

Discusses the oil of rose distilled from  
 flowers growing in Germany and compares it with the  
 Turkish Oil of Rose.

1886

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 German Otto of Roses.

Chem. & Drugg., 28, p.97 (Drugg. Circ., 31, p. 7.)

Gives a comparison of the "otto" produced in  
 Germany with that produced in Bulgaria.

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 Heppe, G.

1887

## Zum Nachweis von Walrath in Rosenöl.

Chem. tech. Central-Anzeiger, 4, p. 624 (Zeitsch. f.  
 anal. Chem., 26, p. 752; Am. Drugg., 17, p. 70;  
 Proc. Am. Pharm. Assoc., 36, p. 478.)

Gives a method for testing for the presence  
 of spermaceti, which is used as a secondary adulterant  
 in oil of rose.

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 Schimmel & Co.

1887

## Rosen-Oel, deutsches.

Bericht., Apr. p. 29.

Discuss the distillation of rose oil in  
 Germany.

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 Schimmel & Co.

1887

## Rosen - Oel, türkisches.

Bericht., Apr., p. 29.

Discuss the yield of otto of rose in Turkey.

Schimmel & Co.

1887

Rosen - Oel, deutsches.

Bericht., Oct., p. 27.

Give the yield and the characteristics of the otto of rose distilled in Germany.

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Schimmel & Co.

1887

Rosen - Oel, türkisches.

Bericht., Oct., p. 28.

Give the yields of the otto of rose crops in Turkey for the past 7 years.

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Schmalfus, E.

1887

The Otto of Rose Industry.

Chem. & Drugg., 29, p. 809; Am. Journ. Pharm., 59, p. 33  
(Drugg. Circ., 31, p. 43.)

Discusses the cultivation of the rose in Bulgaria as to the type of soil, the important constituents of the soil, the species of roses and arrangement of the field as to shelter.

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Snow, H.W.

1887

Oil of Rose.

New Idea, 9, p. 541 (Drugg. Circ., 31, p. 84.)

Gives tests for the determination of the adulteration of oil of rose and names the common oils used in adulterating the oil of rose.

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Schimmel & Co.

1888

Rosen - Oel, deutsches.

Bericht., Apr., p. 36.

Discuss the characteristics of the German otto of rose.

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Schimmel & Co.

1888

Rosen - Oel, deutsches.

Bericht., Oct., p. 32.

Give the yield of the 1888 distillation of rose oil in Germany.

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Schimmel & Co.

1888

Rosen - Oel, türkisches.

Bericht., Oct., p. 33.

Give the 1888 yield of rose oil distilled in Turkey.

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Blondel, R.E.

1889

Les produits odorants des rosiers; etude de botanique medicale.

Am. Journ. Pharm., 65, p. 93 (Chem. and Drugg., 39, p.128; Drugg. Circ., 34, p. 186; Schimmel & Co., Report, Apr. 1890, p. 51; Ibid., Oct., 1889, p. 38.)

In a thesis of the faculty of medicine, states that "the essence in roses is found in the papilliform epidermal cells on the upper surface of the petals, scarcely ever on the lower side...The delicacy and the special odor of the essence furnished by each variety of roses seems to depend upon the more or less complete transformation of the intermediate tannoid compounds derived from the chlorophyll."

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Dodge, F.

1889

The Indian Grass Oils.

Am. Chem. Journ., 11, p. 456 (Pharm. Journ., 59, p. 420;  
Drugg. Circ., 42, p. 64.)

Gives properties of the Indian grass oils  
which are used as adulterants for oil of rose.

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Schimmel & Co.

1889

Rosen - Oel, deutsches.

Bericht., Apr., p. 35.

Give the market value of the last year's  
rose oil distilled in Germany.

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Schimmel & Co.

1889

Rosen - Oel, türkisches.

Bericht., Apr., p. 36 (Pharm. Journ., 48, p. 843;  
Am. Journ. Pharm., 61, p. 373.)

Gives information regarding the properties of  
a pure rose oil, of the characteristic stearoptene and  
introduction of spermaceti. Also gives directions for  
the isolation and determination of the stearoptene and  
the method of determination of an admixture of spermaceti.

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Schimmel & Co.

1889

Rosen - Oel, turkisches.

Bericht., Apr., p. 36.

Discuss the composition of the stearoptene  
in Turkish rose oil.

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Schimmel & Co.

1889

Rosen - Oel, türkisches.

Bericht., Oct., p. 38.

Discuss the conditions affecting the yield of rose oil in Turkey.

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Schimmel & Co.

1889

Rosen - Oel.

Bericht., Oct., p. 38 (Archiv. Pharm., 229, p. 358.)

Discuss rose oil obtained from different varieties of roses.

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Dodge, F.

1890

The Indian Grass Oils.

Am. Chem. Journ., 12, p. 563 (Pharm. Journ., 59, p. 419;  
Drugg. Circ., 42, p. 64; Journ. prakt. Chem., 164, p. 510.)

Discusses the chemical composition of the Indian Grass Oils which are used as adulterants for oil of rose.

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Haigh, D. L.

1890

Oil of Rose, Otto of Rose.

Proc. Am. Pharm. Assoc., 38, p. 725.

Reports on the results obtained when 9 samples of oil of rose, 1 sample each of Bois de Rose Femelle, Bois de Rose Rhodium, and Geranium were tested for odor, using blotting paper and hot water, by evaporation; Hager's test; the Sulphuric acid test; the Bromine test; the Iodine test; the test with ether and sulphuric acid; and the Nitric acid test.

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Holstein, H.O.

1890

(Otto of Rose and Cultivation in Turkey.)

Oil, Paint and Drug Reporter, ---, p. --- (Am. Journ. Pharm.,  
61, p. 463; Proc. Am. Pharm. Assoc., 39, p. 445.)

(Discusses the differences in the congealing points of the oil produced from roses grown on the high slopes of the Balkans with that from the roses grown on the plains and also the different oils produced at numerous villages; the adulteration, and the best time to purchase oil of rose.)

The original was not available.

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Poleck, T.

1890

Ueber deutsches und türkisches Rosenöl.

Ber. d. d. Chem. Gesell., 23, p. 3554 (Pharm. Journ., 59,  
p. 417; Drugg. Circ., 42, p. 64; Compt. rend., 197, p. 1748;  
Schimmel & Co., Report, Apr., 1891, p. 52.)

Gives data relative to and formulae of the alcohols which he believes are present in oil of rose.

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Schimmel & Co.

1890

Rose Oil, German.

Report, Oct., p. 50 (Archiv. Pharm., 229, p. 357.)

Gives a comparison of the German and Turkey Oil of Rose.

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Schimmel & Co.

1890

Rose Oil, Turkey.

Report, Oct., p. 52.

Discuss the composition of the stearoptene and the quantity found in Turkish Oil of Rose.

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Minutes of the Pharmaceutical Meeting,  
February 18, 1890.

Am. Journ. Pharm., 62, p. 157.

"Prof. Maisch presented a specimen of otto of rose, claimed to have been smuggled by sailors, and hawked about the streets of New York; it consisted of petrolatum flavoured with French Oil of Rose-Geranium, and was evidently a fraudulent imitation made in this country."

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Semmler, F.W.

1890

Ueber "indisches Geraniumöl"

Ber.d.d. Chem. Gesell., 23, p. 1098 (Pharm. Journ., 59, p. 417; Drugg. Circ., 42, p. 64; Ber. d.d. Chem. Gesell., 23, p. 2965; Ibid., 23, p. 3555; Ibid., 26, p. 2710; Journ. prakt. Chem., 157, p. 195.)

Gives data for believing Geraniol to be a natural constituent of oil of rose.

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Semmler, F. W.

1890

Ueber indisches Geraniumöl, Geranium-  
aldehyd und Geraniumsäure.

Ber. D.d.Chem. Gesell., 23, p. 3556 (Pharm. Journ., 50, p. 940; Ibid., 59, p. 417; Drugg. Circ., 42, p. 64; Ber. d.d. Chem. Gesell., 24, p. 203.)

Gives reasons for believing that the alcohol Geraniol and the aldehyde Geranial exist in oil of rose.

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Semmler, F.W.

1890

Ueber indisches Geraniumöl. Oxydation  
des Geraniols.

Ber. d.d. Chem. Gesell., 23, p. 2965 (Pharm. Journ., 59, p. 417; Drugg. Circ., 42, p. 64; Ber. d.d. Chem. Gesell., 23, p. 3555; Ibid., 24, p. 201; Schimmel & Co., Report, April, 1892, p. 45.)

Gives data regarding the oxidation of Geraniol, to prove that it is a constituent of natural oil of rose.

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(Correspondent)

1891

The Cultivation of Roses and Preparation  
of Otto in Bulgaria.

Pharm. Era, 5, pp. 139 & 203.

Discusses the history, cultivation and distillation of oil of rose in Bulgaria.

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Eckart, U.

1891

Chemische Untersuchung des deutschen und  
türkischen Rosenöles.

Arch. der Pharm., 229, p.355 (Wood & Bache, Dispens.U.S. Am., 17 ed., p. 963; Am. Journ. Pharm., 63, p. 462; Proc. Am. Pharm. Assoc., 40, p. 723; Brit. & Col. Drugg., 25, p. 312; Ber. d.d. Chem. Gesell., 24, p. 4205; Ibid., 26, p. 2709; Drugg. Circ., 42, p. 64; Ibid., 35, p. 274; Pharm. Journ., 59, p. 417; Compt. rend., 197; p. 1748; Schimmel & Co., Report, Oct., 1891, p. 42; Ibid., Apr., 1894, p. 47; Compt. rend., 117, p. 177; Tschirch, Handb. der Pharmak., 1 ed., v.2, p. 810; Journ prakt. chem., 157, p. 185.)

Gives a detailed report of his examination of the German and Turkish rose oils. He states that both oils have the same constituents but in different proportions.

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Markownikoff, W.

1891.

Ueber das Rosenöl.

Ber.d.d.Chem. Gesell., 23, p. 3191 (Pharm. Journ., 50, p. 664; Proc. Am. Pharm. Assoc., 39, p. 445; Pharm. Journ., 59, p. 417; Drugg., 42, p. 64; Schimmel & Co., Report, Apr., 1891, p. 52; Tschirch, Handb. der Pharmakog., 1 ed., v. 2, p. 810).

"States that the stearoptene, or solid portion of oil of rose, possesses all the properties of a paraffin; it melts at  $36.5^{\circ}\text{C}$ ., is perfectly odorless, and is without any value as a constituent of the oil. The eleoptene, or liquid portion, boils almost entirely within narrow limits, it consists of a mixture of two bodies having the composition represented by the formulae  $\text{C}_{10}\text{H}_{20}\text{O}$  and  $\text{C}_{10}\text{H}_{18}\text{O}$ , of which only one, the principal constituent of rose oil, is of an alcoholic nature."

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Panajotow, G.

1891

Ueber die Nachweisung der türkischen Geranium-Essenz im Rosenöl.

Ber. d.d. Chem. Gesell., 24, p. 2700 (Am. Drugg., 20, p. 335; Proc. Am. Pharm. Assoc., 40, p. 722; Drugg. Circ., 35, p. 252; Schimmel & Co., Report, Apr., 1892, p. 44.)

Discusses the detection of Oil of Geranium in Oil of Rose.

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Poleck, T.

1891

Ueber deutsches Rosenöl.

Che, Ztg., 15, p. 1372 (Pharm. Journ., 50, p. 664; Proc. Am. Pharm. Assoc., 39, p. 445.)

Compares the German rose oil with the Turkish rose oil relative to the stearoptene and the eleoptene content.

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Poleck, T.

1891

Ueber deutsches und türkisches Rosenöl.

Ber. d.d. Chem. Gesell., 23, p. 3554 (Tschirch, Hand. der Pharmak., 1 ed., v.2, p. 810).

Gives the physical constants and the constituents of German and Turkish rose oils.

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Sawer, J.C.

1891

Grass Oils and Their Varieties.

Chem. & Drugg., 39, p. 128 (Proc. Am. Pharm. Assoc., 40, p. 722.)

Discusses ginger-grass oil which is used as an adulterant for geranium oil which is used to adulterate oil of rose.

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Schimmel & Co.

1891

Rose Oil, German.

Report, Apr., p. 50.

Gives the properties and data concerning the composition of the fluid portion of the oil of rose.

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Schimmel & Co.

1891

Rose Oil, Turkish.

Report, Apr., p. 52.

Discuss the market value of Turkish Oil of Rose.

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Schimmel & Co.

1891

Rose Oil, German.

Report, Oct., p. 40.

Give the properties of the German Oil of Rose with a very small stearoptene - content.

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Schimmel & Co.

1891

Rose Oil, Turkish.

Report, Oct., p. 41.

Give the yield of otto of rose in 1891 in Turkey and the results of recent investigations on Rose Oil.

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1891

Detection of Geranium Oil in Rose Oil.

Drugg. Circ., 35, p. 252.

Gives the test which Panajotow used to detect the above adulteration of oil of rose.

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(Correspondent)

1892

Attar of Roses.

Pharm. Era, 8, p. 10.

Discusses the production of Attar of Roses in the town of Kizanlik in Turkey.

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Monnet, P. & Barbier, P.

1892

Sur une nouvelle source de Rhodinol.

Compt. rend., 117, p. 1092 (Pharm. Journ., 59, p. 417; Drugg. Circ., 42, p. 64; Tschirch, Handb. der Pharmak., 1 ed., v.2, p. 810; Journ. prakt. Chem., 157, p. 194.)

Discuss the comparison of the alcohol obtained from French geranium oil and the chief constituent of oil of rose.

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Panajotow, G.

1892

Sur la presence de l'essence de geranium dans l'essence de roses.

Bulletin de la Societe Chim., s.3, v.8, p.528 (Ber. d.d. Chem. Gesell., 24, p. 2700; Am. Journ. Pharm., 64, p. 569; Proc. Am. Pharm. Assoc., 41, p. 890.)

Gives 2 tests for detecting oil of geranium as an adulterant in oil of rose, the first test uses bisulphite of rosaniline as a reagent and the second test uses concentrated sulfuric acid as the reagent.

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Schimmel & Co.

1892

Rose Oil, German.

Report, Apr., p. 43.

Give information regarding the construction of a factory near Leipzig to accomodate the increase in rose cultivation in Germany.

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Schimmel & Co.

1892

Rose Oil, Turkish.

Report, Apr., p. 44.

Give methods for detecting the adulteration of otto of rose.

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Schimmel & Co.

1892

Rose Oil, German.

Report, Oct., p. 41.

Give the yield of the 1892 distillation and discuss the 3 products of the rose industry which they prepare namely:- rose oil, rose water and rose pomade.

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Schimmel & Co.

1892

Rose Oil, Turkish.

Report, Oct., p. 35.

Give production ststistics of the Turkish Rose Oil industry.

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Semmler, F.W.

1892

Ueber olefinische Bestandtheile ätherischer  
Öele.

Ber. d.d.Chem. Gesell., 24, p. 201 (Pharm. Journ., 50,  
p. 940; Ibid., 59, p. 417; Drugg. Circ., 42, p. 64;  
Journ. prakt. Chem., 157, p. 195; Ber. d.d. Chem.  
Gesell., 26, p. 2710.)

Discusses the constituents of volatile oils,  
including oil of rose.

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Barbier, P.

Derives et constitution de rhodinol de  
l'essence de roses.

Compt. rend., 117, p. 177 (Schimmel & Co., Report, Oct.,  
1893, p. 35; Ibid., April, 1894, p. 47; Gildemeister, E. &  
Hoffmann, F., The Volatile Oils, 2 ed., v. 2, p. 568;  
Tschirch, Handb. der Pharmak., 1 ed., v. 2., p. 810;  
Journ. prakt. Chem., 157, p. 185; Ber. d.d. Chem. Gesell.,  
26, p. 2715.)

Gives the method used in determining the  
formula of rhodinol as  $C_{10}H_{19}O.C_2H_3O$ .

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Barbier, P.

1893

Sur le geraniol.

Compt. rend., 117, p. 120 (Pharm. Journ., 59, p. 417;  
Drugg. Circ., 42, p. 64; Ber. d.d. Chem. Gesell., 26,  
p. 2715.)

Gives data verifying his conclusion that "the  
alcohol constitution of the chief part of rose oil and  
of geranium oil" is geraniol.

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(Belgian Consul)

1893

Rose - Growing in Saxony.

Drugg. Circ., 37, p. 252.

"The oil of roses produced in Saxony during last year, it is claimed that not only did it not fall short on comparison with the Turkish product, but that it was better than its rival in delicacy and strength and the lasting character of its perfume."

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Markownikoff, W. & Reformatsky, A.

1893

Untersuchung des bulgarischen Rosenöls.

Journ. f. prakt. Chem., 156, p. 293 (Apoth. Ztg., 8, p. 638; Am. Journ. Pharm., 66, p. 143; Proc. Am. Pharm. Assoc., 42, p. 1159; Brit. & Col. Drugg., 25, p. 109; Drugg. Circ., 38, p. 82; Ibid., 42, p. 64; Pharm. Journ., 59, p. 417; Pharm. Ztschr. f. Russland, 32, p. 102; Schimmel & Co., Report, Oct., 1893, p. 34; Ibid., Apr., 1894, p. 47; Tschirsch, Handb. der Pharmak., 1 ed., v. 2., p. 810; Journ. f. prakt. Chem., 157, p. 185.)

Give the chief constituent of the rose oil, (roseol), its properties, its acetate and properties, and the properties of the stearoptene of the oil of rose.

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Poleck, T.

1893

Notiz betreffend das Vorkommen des  
Aethylalkohols im deutschen und  
türkischen Rosenöl.

Ber. d. d. Chem. Gesell., 26, p. 38 (Proc. Am. Pharm. Assoc., 41, p. 889; Tschirsch, Handb. der Pharmak., 1 ed., v. 2, p. 810.)

"Oil prepared in Germany, on the spot where roses were grown, was found to contain no ethyl alcohol. That previously found in other samples must have been formed by fermentation taking place in the leaves during their transportation to the factory."

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Schimmel & Co.

1893

Rose Oil (German).

Report, Apr., p. 57.

Discuss the cultivation and distillation of oil of rose in Germany.

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Schimmel & Co. 1893

Rose Oil, Bulgarian.

Report, Apr., p. 59.

Give the properties of a green Otto of Rose prepared in Bulgaria.

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Schimmel & Co. 1893

(Rose Oil, Bulgarian.)

Report, Oct., 1893, p. 34 (Pharm. Journ., 53, p. 505.)

Give the formula for the rhodinol acetic ester as  $C_{10}H_{17}O.C_2H_3O$  determined by Barbier and as  $C_{10}H_{19}O.C_2H_3O$  as determined by Reformatzky and Markovinkoff.

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Schimmel & Co. 1893

Rose Oil, German.

Report, Oct., p. 35.

Give a description of the factory near Leipzig where the German Oil of Rose is distilled.

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Shipkoff & Co. 1893

Rose Culture in Bulgaria.

World's Fair Circular; Am. Journ. Pharm., 65, p. 603.

"It is the peculiarity of the soil and chiefly that of the atmosphere of this special district in Bulgaria, caused by the peculiar formation of the mountain ranges surrounding it, which make the roses thrive and yield sufficient Otto of Rose to pay for the very laborious work that the culture entails." Continues to discuss the varieties of roses grown, the planning of the garden, the yield of flowers, the distillation of the oil of rose and the yield of the otto of the various rose gardens.

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Tiemann, F. & Semmler, W.

1893

Ueber Verbindungen der Citral-(Geranial-)  
reihe.

Ber. d. d. Chem. Gesell., 26, p. 2709 (Journ. prakt.  
Chem., 157, p. 195.)

Give the physical constants and derivatives  
of citral, a constituent of oil of rose.

( )

1893

(German Otto of Roses.)

Kew Bull., 80, p. 229 (Pharm. Journ., 53, p. 262; Proc.  
Am. Pharm. Assoc., 42, p. 1159.)

(Describes the rose plantations established  
two years ago in the suburbs of Leipzig and the oil  
produced in Saxony.)

The original was not available.

1893

Production of Oil of Rose in 1892.

Pharm. Era , 9, p. 226 (Proc. Am. Pharm. Assoc., 41, p.890)

Lists in table form the amount of rose oil  
produced and the amount of roses distilled in several  
districts in Turkey.

Betram, J. & Gildemeister, E.

1894

Zur Kenntniss des Rosenöls.

Journ. prakt. Chem., 157, p. 185 (Proc. Am. Pharm. Assoc.,  
42, p. 1158; Ibid., 42, p. 1159; Pharm. Journ., 53, p. 857;  
Drugg. Circ., 38, p. 153; Schimmel & Co., Report, Apr.,  
1895, p. 67; Tschirch, Handb. der Pharmak., 1 ed., v. 2,  
p. 810; Journ. prakt. Chem., 164, p. 507.)

Discuss the composition of rose oil, and the  
adulterants - geraniol and rhodinol, their properties  
and detection in oil of rose.

(Bulgarian Correspondent)

1894

The Otto - of Rose Crop.

Chem. & Drugg., 44, p. 810.

Gives a report of the growth of the rose-bushes and the amount of oil they are expecting to obtain.

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(Bulgarian Correspondent)

1894

The Otto - Rose Crop.

Chem. & Drugg., 44, p. 900.

Gives a report of the progress in the manufacture of the otto - of rose and the approximate yield; also states that the Government proposes a heavy penalty for adulteration.

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(Correspondent)

1894

Otto of Rose at the Antwerp Exhibition.

Chem. & Drugg., 44, p. 444.

Describes the exhibit of the Bulgarian otto-of - rose at the Antwerp Exhibition.

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(Correspondent)

1894

The Bulgarian Otto - of - Rose Industry.

Chem. & Drugg., 44, p. 3.

Gives notice of the Bulgarian Bill "providing strict Governmental control over the manufacture of otto - of - rose.

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(Correspondent)

1894

Otto - of - Rose Manufacture in Asia Minor.

Chem. & Drugg., 44, p. 600.

Reports that nurseries have been established in Karassi and Broussa with the idea of extending the rose - bush plantations and experimenting in the manufacture of the otto.

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(Correspondent)

1894

The Coming Otto - of - Rose Crop.

Chem. & Drugg., 44, p. 632.

Gives a report of the condition of the rose - bushes in Bulgaria, and the amount of the oil in stock and also the amount they expect to obtain from the present rose crop.

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(Editor)

1894

Autolycus On Otto of Rose.

Chem. & Drugg., 44, p. 254.

Comments on an article written in the Pall Mall Gazette regarding the purity of the otto - of - rose.

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(Editor)

1894

Purifying the Otto - of Rose Industry.

Chem. & Drugg., 44, p. 252 (Proc. Am. Pharm. Assoc., 42, p. 1159)

Comments on the Bill recently written by Mr. Ilia Stokow, Deputy for Kazanlik in the Bulgarian Sobranje, designed to stop the adulteration of the otto of rose.

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Hesse, A.

1894

Reuniol, ein neuer Terpenalkohol.

Journ. prakt. Chem., 158, p. 472 (Pharm. Journ., 59, p. 417; Drugg. Circ., 42, p. 64; Tschirch, Handb. der Pharmak., 1 ed., v.2, p. 810; Journ. prakt. Chem., 164, p. 510.)

Gives data for believing reuniol to be a constituent of oil of rose.

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Markownikoff, W. & Reformatsky, A.

1894

(Bulgarian Rose Oil.)

Journ. d. russ. phys. Chem. Gesell., 1, p. 195 (Ber. d.d. Chem. Gesell., 27, p. 625; Schimmel & Co., Report, Apr., 1895, p. 67.)

(Discuss the chemical difference between Bulgarian and German rose oil.)

The original was not available.

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Schimmel & Co.

1894

Rose Oil, German.

Report, Apr., p. 43.

Discuss the increase in the otto of rose industry of Germany.

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Schimmel & Co.

1894

Rose Oil, Turkish.

Report, Apr., p. 44.

Give statistics relative to the production of otto of rose in Turkey.

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Schimmel & Co.

1894

Rose Oil, Bulgarian.

Report, Oct., p. 51 (Proc. Am. Pharm. Assoc., 43, p. 1038)

Discuss the Government control of the quality of rose oil produced in Bulgaria.

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Schimmel & Co.

1894

Rose Oil, German.

Report, Oct., p. 52.

Discuss the harvesting of the rose petals in Germany.

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(Special correspondent)

1894

The Adulteration of Otto of Rose.

Chem. & Drugg., 44, p. 777.

Reports "that the Bill against the adulteration of essential oil of rose" will be deferred until October 15, and that in the meantime two chemistry professors at the University of Sophia have been sent to the manufacturing districts to study the old and new samples of the oil of rose.

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Stokow, I.

v 1894

The Bulgarian Otto - of - Rose Industry.

Chem. & Drugg., 44, p. 261 (Proc. Am. Pharm. Assoc., 42, p. 1159.)

"Translation of the Bill submitted to the Bulgarian Sobranje by the Deputy for Kazanlik for checking the abuses connected with the otto - of - rose industry in Bulgaria." Name of Bill - "An Act for the Preservation of the Purity of the Essential Oil of Roses Produced in the Principality of Bulgaria."

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1894

Adulterants of Otto of Rose in Bulgaria.

Chem. & Drugg., 44, p. 205.

Lists the adulterants which are prohibited according to the Bulgarian Minister of Finance.

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1894

Mitcham Otto.

Chem. & Drugg., 44, p. 153.

"We understand that rose water was distilled in Mitcham but have not heard of otto being distilled."

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1894

Otto of Rose.

Brit. & Col. Drugg., 25, p. 311 (Proc. Am. Pharm. Assoc., 42, p. 1159.)

Describes the rose garden in Bulgaria, the cultivation of roses, the distillation of the otto, the yield, properties, adulterants and 2 tests for adulteration.

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(Anonymous)

1895

Oil of Rose.

U.S. Consular Report, 48, p. 642 (Pharm. Journ., 53, p. 427.)

Gives the effect of the climatic conditions on the yield and price of the otto of rose.

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Barbier, P. & Bouveault, L.

1895

Constitution du rhodinol.

Compt. rend., 122, p. 673 (Pharm. Journ., 59, p. 417; Drugg. Circ., 42, p. 64; Tschirch, Handb. der Pharmak., 1 ed., v. 2, p. 810.)

Discuss the methods used to determine the formula for rhodinol and its presence in oil of rose.

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Barbier, P. & Bouveault, L.

1895

Extraction du rhodinol, de l'essence de pelargonium et de l'essence de roses; identitei de ces deux alcools.

Compt. rend., 122, p. 530 (Pharm. Journ., 59, p. 417; Drugg. Circ., 42, p. 64; Schimmel & Co., Report, Apr., 1897, p. 32; Tschirch, Handb. der Pharmak., 1 ed., v. 2, p. 810; Journ. prakt. Chem., 164, p. 510.)

Give data for concluding that citronellol is a constituent of oil of rose.

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Jedermann, R.

1895

Zur Prüfung des Rosenöls auf Geraniumöl.

Zeit. Anal. Chem., 34, p. 51 (Wood & Bache, Dispens. U.S.Am., 18 ed., p. 963; Ibid., 19 ed., p. 871; Ibid., 20 ed., p. 787; Ibid., 21 ed., p. 782; Proc. Am. Pharm. Assoc., 43, p. 1038; Drugg. Circ., 39, p. 182; Schimmel & Co., Report, April, 1895, p. 69.)

Discusses the detection of geranium oil, which is used as an adulterant in Otto of Rose.

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Schimmel & Co.

1895

Rose Oil, Bulgarian.

Report, Apr., p. 66.

Give the existing conditions of the oil of rose industry in Bulgaria.

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Schimmel & Co.

1895

Rose Oil, Bulgarian.

Report, Apr., p. 67 (Pharm. Journ., 54, p. 1042.)

Record and comment on certain slight differences in the boiling points of geraniol and so-called roseol, and also the melting points of their acetates.

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Schimmel & Co.

1895

Rose Oil, German.

Report, Apr., p. 70.

Discuss the effect of climatic conditions on the rose crop in Germany.

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Schimmel & Co.

1895

Rose Oil, Bulgarian.

Report, Oct., p. 40.

Give the commercial value of the Bulgarian oil of rose.

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Schimmel & Co.

1895

Rose Oil, German.

Report, Oct., p. 41.

Report the yield of otto distilled in Germany in 1895.

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Umney, J.C.

1895

Rose Oil.

Pharm. Journ., 54, p. 1042 (Proc. Am. Pharm. Assoc., 43, p. 1037.)

Discuss the characteristics of the Turkish Oil of Rose and the German Oil of Rose.

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1895

Reuniol, a Substitute for Oil of Rose.

Drugg. Circ., 39, p. 9.

Gives the properties of reuniol, an oil of rose substitute, manufactured by a firm of essential oil distillers in Germany.

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Bertram, J. & Gildemeister, E.

1896

Ueber Geraniol und Rhodinol.

Journ. prakt. Chem., 161, p. 225 (Pharm. Journ., 59, p. 417; Drugg. Circ., 42, p. 64; Tschirch, Handb. der Pharmak. 1 ed., v. 2, p. 810; Journ. prakt. Chem., 164, p. 511.)

Discuss the presence of Rhodinol and Geraniol  
in oil of rose.

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Dupont, J. & Guerlain, J. 1896

Sur l'essence de roses de France.

Compt. rend., 123, p. 700 (Tschirch, Handb. der Pharmak.,  
1 ed., v. 2, p. 810.)

Give the physical and chemical properties  
of the oil of rose distilled in France.

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Erdmann, H. & Huth, P. 1896

Zur Kenntnis des Rhodinols oder Geraniols.

Journ. prakt. Chem., 161, p. 42 (Drugg. Circ., 42, p. 64;  
Ibid., 42, p. 65; Pharm. Journ., 59, p. 417; Ibid., 56,  
p. 173; Journ. prakt. Chem., 161, p. 225; Schimmel & Co.,  
Report, Apr., 1897, p. 33; Tschirch, Handb., der Pharmak.,  
1 ed., v. 2., p. 810.)

Discuss existing information regarding the  
chemical composition of the alcohol, known as rhodinol  
and geraniol, which is a constituent of oil of rose.

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Hesse, A. 1896

Ueber die vermeintliche Identität von  
Reuniol, Rhodinol und Geraniol.

Journ. prakt. Chem., 161, p. 238 (Schimmel & Co., Report,  
Apr., 1901, p. 51; Ibid., Apr., 1897, p. 32; Tschirch, Handb.  
der Pharm., 1 ed., v.2, p. 810.)

Gives reasons why the name "rhodinol" should not  
be applied to the alcohol known as "geraniol."

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Schimmel & Co. 1896

Rose Oil, Bulgarian.

Report, Apr., p. 51.

Give the commercial value of the Bulgarian oil of rose.

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Schimmel & Co. 1896

Rose Oil, German.

Report, Apr., p. 52.

Discuss the conditions for the successful cultivation of roses in Germany.

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Schimmel & Co. 1896

Rose Oil, Bulgarian.

Report, Oct., p. 63.

Give the yield of the 1896 crop of roses in Bulgaria.

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Tiemann, F. & Schmidt, R. 1896

Ueber die Verbindungen der Citronellalreihe.

Ber. D.d. Chem. Gesell., 29, p. 903 (Pharm. Journ., 59, p. 420; Drugg. Circ., 42, p. 64; Schimmel & Co., Report, Apr., 1896, p. 32; Am. Journ. Pharm., 73, p. 199.)

Discuss the chemical composition of citronellol, which is believed to be a constituent of oil of rose.

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Tiemann, F. & Schmidt, R. 1896

Ueber die Verbindungen der Citronellalreihe.

Ber. d.d. Chem Gesell., 29, p. 922 (Tschirch, Handb. der Pharmak., 1 ed., v. 2, p. 810; Journ. prakt. Chem., 164, p. 509.)

Give the physical constants of the Turkish rose oil which they examined.

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Bertram, J. & Gildemeister, E.

1897

Die Bestandtheile des Rosenöls und  
verwandter ätherischer Oele.

Journ. prakt. Chem., 164, p. 506 (Tschirch, Handb.  
der Pharmak., 1 ed., v. 2, p. 810.)

Discuss the alcohols found in rose oil and their  
similarity to those found in other volatile oils.

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Bush, J.W. & Co.

1897

Notes on Essential Oils, Otto of Rose.

Chem. & Drugg., 50, p. 53 (Wood & Wood, Dispens., U.S.  
Am., 18 ed., p. 963; Ibid., 19 ed., p. 871; Ibid., 20 ed.,  
p. 787; Ibid., 21 ed., p. 782.)

Records the results obtained when a sample of  
Turkish otto of rose was tested for alcohols ( $C_{10}H_{18}O$ ),  
esters, solidifying point, specific gravity; also the  
properties of first third of distillate are compared with  
the remainder.

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Conroy,---

1897

Testing Oil of Rose.

Drugg. Circ., 41, p. 8.

Gives 3 methods for determining the purity  
of oil of rose.

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Dupont, J. & Guerlain, J.

1897

Sur l'essence de roses de France.

Compt. rend., 123, p. 700 (Schimmel and Co., Report,  
Apr., 1897, p. 34; Drugg. Circ., 41, p. 162; Tschirch,  
Handb. der Pharmak., 1 ed., v. 2, p. 810.)

A comparison of the physical constants of the  
French and Bulgarian rose oils.

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Erdmann, H.

1897

Bemerkungen zu den vorstehenden  
Abhandlungen.

Journ. prakt. Chem., 164, p. 44 (Pharm. Journ., 59,  
p. 417; Drugg. Circ., 42, p. 64; Proc. Am. Pharm. Assoc.,  
46, p. 980.)

Discusses the naming of the 2 alcohols found  
in the oil of rose and their similarity to those found  
in other volatile oils.

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Erdmann, H.

1897

Untersuchungen über die Bestandtheile  
des Rosenöls und verwandter  
ätherischer Oele.

Journ. prakt. Chem., 164, p. 1 (Pharm. Journ., 59,  
p. 418; Drugg. Circ., 42, p. 65; Journ. prakt. Chem.,  
164, p. 506.)

Discusses the similarity of the alcohols  
found in the oil of rose to those found in other volatile  
oils.

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Schimmel & Co.

1897

Rose Oil, Bulgarian.

Report, Apr., p. 31.

Report the exports of rose oil in 1895 from  
Bulgaria.

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Schimmel & Co.

1897

Rose Oil, German.

Report, Apr., p. 35.

Give the conditions of the rose fields in  
Germany.

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Schimmel & Co.

1897

Rose Oil, Bulgarian.

Report, Oct., p. 48 (Ibid., 1921, p. 38.)

Give the yield of the 1897 rose crop in Bulgaria.

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Schimmel & Co.

1897

Rose Oil, German.

Report, Oct., p. 50.

Give the yield of the 1897 rose crop in Germany and discuss products derived from the rose oil as rose-geraniol and rose pomade.

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1897

The Constituents of Rose Oil and Other  
Volatile Oils Related to It.

Pharm. Journ., 59, p. 417; Drugg. Circ., 42, p. 64  
(Pharm. Journ., 60, p. 9.)

Gives the constituents of oil of rose and methods for determining these constituents.

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Dietze, F.

1898

Prüfung von Rosenöl.

Sddeutsch Ap. Zt., 38, p. 672 & 680 (Am. Journ. Pharm., 71, p. 280; Gildemeister & Hoffmann, Die Aetherischen Öle, 1 ed., p. 570; Jahresber. der Pharm., 33, p. 416; Drugg. Circ., 42, p. 297.)

Gives the difference in physical properties of the adulterant and the oil of rose, as observed when testing a sample of a new mixture used as an adulterant by the oil producers in Bulgaria.

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Schimmel & Co.

1898

Rose Oil, Bulgarian.

Report, Apr., p. 39.

Discuss methods for checking the adulteration of oil of rose in Bulgaria.

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Schimmel & Co.

1898

Rose Oil, German.

Report, Apr., p. 39 (Wood & Bache, Dispens. U.S. Am., 18 ed., p. 962; Ibid., 19 ed, p. 871; Ibid., 20 ed., p. 786.)

Report the climatic conditions in the vicinity of the rose fields in Germany.

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Schimmel & Co.

1898

Rose Oil, German.

Report, Apr., p. 40 (Proc. Am. Pharm. Assoc., 46, p. 979.)

Give an account of the controversy in regard to the proper names of the 2 alcohols which are recognized as the principal constituents of the fluid part of the oil of rose.

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Schimmel & Co.

1898

Rose Oil, Bulgarian.

Report, Oct., p. 37.

Give the yield of the 1898 rose crop in Bulgaria and discuss the use of oil of guajacum wood as an adulterant.

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Schimmel & Co.

1898

Rose Oil, German.

Report, Oct., p. 38 (Proc. Am. Pharm. Assoc., 47, p. 675.)

Discuss the climatic conditions which effected the decrease in the yield of the rose oil distilled in Germany.

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(Correspondent)

1899

(Otto of Rose)

London Standard, July, 22, 1899, p.---(Chem. & Drugg., 55, p. 236.)

Reports that the shortage in the yield of the otto of rose is due to drought.

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(Correspondent)

1899

Rose Cultivation Extending.

Chem. & Drugg., 55, p. 1013 (Ibid., 56, p. 199.)

States that the Turkish government had purchased 10,000 rose "trees" for distribution to agriculturists.

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(Correspondent)

1899

The Otto - of - rose Crop.

Chem. & Drugg., 55, p. 69.

Gives the yield of the Bulgarian crops for the past 10 years, the present years crops and the congealing points of the ottos produced in Kezanlik, Carlova, Ovtchehm, Pechtera, Saranagora and Brezova, Tchizpoa, and Eni S aghra and Eski - Baghra.

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Holstein, H.A. 1899  
Otto of Roses.

Chem. & Drugg., 55, p. 379.

Reports on estimate of the crop of 1899 with the  
crops of the past 10 years.

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Parry, E. J. 1899

Otto of Rose.

Chem. & Drugg., 54, p. 861 (Drugg. Circ., 43, p. 158.)

Describes the properties of the guaiacum wood  
oil which is used as an adulterant of oil of rose.

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Schimmel & Co. 1899

Rose Oil, Bulgarian.

Report, Apr., p. 35.

Discuss the market value of the Bulgarian rose oil.

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Schimmel & Co. 1899

Rose Oil.

Report, Oct., p. 50.

Give the yield of the 1899 rose crop of Bulgaria  
and discuss existing market conditions.

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Schimmel & Co. 1899

Rose Oil (German)

Report, Oct., p. 52.

Give the climatic conditions existing in the  
region of the rose fields in Germany.

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(Special Correspondent)

1899

The 1899 Rose - Crop.

Chem. & Drugg., 55, p. 107.

Comments on the influence of the climatic conditions on the rose crop in Bulgaria and the yield of otto of rose.

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(Correspondent)

1900

Indian Otto of Rose.

Chem. & Drugg., 56, p. 1018.

States that a prominent firm in Madras is trying the cultivation of the rose and production of the otto in South Wynaad.

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(Correspondent)

1900

Rose - cultivation in Turkey.

Chem. & Drugg., 56, p. 199.

States that the Turkish government has proposed to aid the otto - of - rose - industry by supplying modern equipment.

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Felter, H.W. & Lloyd, J.U.

1900

Oleum Rosae (U.S.P.) Oil of Rose.

Am. Dispens., 18 ed., v. 2, p. 1383.

Give the official pharmacopoeial definition, synonyms, history, source, description, chemical composition, adulterants, tests and uses of oil of rose.

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Garnett, H.

1900

Notes on Otto of Rose.

Chem. & Drugg., 56, p. 96; Drugg. Circ., 44, p. 185  
(Am. Journ. Pharm., 73, p. 199.)

Reports the specific gravity, optical rotation, freezing-point, alcoholic constituents, stearoptene and ether percentage value obtained from numerous samples examined and compares his values with those obtained by other chemists.

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Parry, E.J.

1900

Otto of Rose.

Chem. & Drugg., 57, p. 125 (Proc. Am. Pharm. Assoc., 49, p. 823.)

Comments on the monograph for rose oil in the British Pharmacopoeia and discusses 4 samples of the rose oil obtained at the Paris Exhibition from Messers Shipkoff & Co. with reference to the British Pharmacopoeial requirements.

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Parry, E.J.

1900

Otto of Rose.

Chem. & Drugg., 56, p. 1013.

Discusses several common adulterants and the physical properties of various samples of commercial otto of rose.

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Schimmel & Co.

1900

Rose Oil.

Report, Apr., p. 38.

Discuss the steps taken by the Government to prohibit the adulteration of rose oil distilled in Bulgaria.

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Schimmel & Co.

1900

Rose Oil (German)

Report, Apr., p. 39 (Gildemeister, E. & Hoffmann, F, The Volatile Oils, 2 ed., v. 2, p. 553.)

Give the weather conditions in the region of rose fields in Germany and their effect upon the rose crop.

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Schimmel & Co.

1900

Rose Oil, Turkish.

Report, Oct., p. 51.

Give a comparison of the 1899 & 1900 yields of Turkish rose oil.

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Schimmel & Co.

1900

Rose Oil, German.

Report, Oct., p. 53 (Ibid., Apr., 1901, p. 49; Ibid., Apr., 1911, p. 99; Proc. Am. Pharm. Assoc., 49, p. 834.)

Give the yield of the 1900 rose crop in Germany and the physical constants of the German rose oil.

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Schimmel & Co.

1900

Rose Oil, artificial, "Schimmel & Co."

Report, Oct., p. 56 (Proc. Am. Pharm. Assoc., 49, p. 835.)

Discuss an artificial rose oil produced in their laboratories.

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Schimmel & Co.

1896

Rose Oil, German.

Report, Oct., p. 65 (Ibid., Apr. 1897, p. 35; Gildemeister, E. & Hoffmann, F., The Volatile Oils, 2 ed., v. 2, p. 553.)

Record the total yield of the 1896 rose crop of Germany.

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v.Soden, H.&Rojahn, W.

1900

Ueber die Auffindung eines aromatischen alcohols im deutschen Rosen - Oel.

Ber. d.d. Chem. Gesell., 33, p. 1720 (Am. Journ. Pharm., 73, p. 199; Schimmel & Co., Report, Oct., 1900, p. 55; Chem. & Drugg., 56, p. 961; Drugg. Circ., 44, p. 187; Ber. d.d. Chem. Gesell., 34, p. 2803; Tschirch, Handb., der Pharmak., 1 ed. v.2, p. 810.)

Give properties and method for determining a new alcoholic constituent in German oil of rose.

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v.Soden, H. & Rojahn, W.

1900

Ueber das Vorkommen des Phenyläthylalkohols in Rosenölen.

Ber.d.d.Chem. Gesell., 33, p. 3063 (Schimmel & Co., Report, Apr., 1901, p. 50; Am. Journ. Pharm. 73, p. 566; Proc. Am. Pharm. Assoc., 49, p. 834; Tschirch, Handb. der Pharmak., 1 ed., v. 2, p. 810.)

"Believe that low content of phenyl ethyl alcohol in distilled oil can only be attributed to--- loss during the distillation process, in consequence of the solubility of phenyl ethyl alcohol in water."

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(Special Correspondent)

1900

Bulgarian Rose - Crop, 1900.

Chem. & Drugg., 56, p. 814.

Reports on the climatic conditions of the country and how they influence the rose - crop.

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Walbaum, H.

1900

"  
Über das Vorkommen von Phenyläthylalcohol  
in den Rosenblüthen.

Ber. d.d. Chem. Gesells., 33, p. 2306 (Schimmel & Co.,  
Report, Apr., 1902, p. 57; Ibid., Apr., 1901, p. 49;  
Tschirch, Handb. der Pharmak., 1 ed., v. 2, p. 810.)

Reports that "the result of these experiments  
is that the total crude oil of the rose blossom,  
obtained by distillation with direct steam and extraction  
of the distillation water, with ether, consists for 50  
to 60% of phenyl ethyl alcohol."

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1900

Bulgarian Otto of Rose.

Chem. & Drugg., 57, p. 124 (Proc. Am. Pharm. Assoc.,  
49, p. 83.)

A detailed description of the Messers.  
Shipkoff exhibit at the Paris Exposition.

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(Correspondent.)

1901

Bulgarian Otto - of - Rose Market.

Chem. & Drugg., 60, p. 60.

Gives the average price and the freezing -  
point of the year's otto - of - rose crop.

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(Correspondent)

1901

The Bulgarian Rose - Crop.

Chem. & Drugg., 60, p. 974.

Reports the yield of otto of roses and the  
reasons for the decrease in amount.

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(Editor.)

1901

Otto of Rose.

Chem. & Drugg., 60, p. 49.

Comments upon the establishment of the otto of rose industry in other localities than the Balkans.

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Holmes, E.M.

1901

Notes on Pure Otto of Rose.

Pharm., 67, p. 664 (Proc. Am. Pharm. Assoc., 50, p. 983; Schimmel & Co., Report, Apr., 1902, p. 58.)

Discusses the cultivation of roses, the stearoptene content of the oil, the odor and modifications of it, the gathering of the rose petals, and the tests for the purity of the oil of rose.

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Kebler, L.F.

1901

Phenyl - Ethyl Alcohol in Rose Blossoms.

Am. Journ. Pharm., 73, p. 199.

"It was found that the oil obtained from the fresh leaves by means of volatile solvents consisted for the greater part of phenyl-ethyl alcohol, while geraniol is the principal constituent of oil distilled with water, from fresh leaves."

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Kebler, L.F.

1901

Phenylethyl Alcohol in Rose Oil.

Am. Journ. Pharm., 73, p. 566.

States that "phenylethyl alcohol is a normal constituent of fresh rose leaves, being formerly lost in the aqueous distillate."

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Schimmel & Co.

1901

Rose Oil, Turkish.

Report, Apr., p. 45 (Perf. & Essent. Oil Rec., 4, p. 328;  
Schimmel & Co., Report, Apr., 1902, p. 59.)

Give the exports of rose oil from Bulgaria and  
a table giving the physical constants of various samples  
of oil of rose.

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Schimmel & Co.

1901

Rose Oil, German.

Report, Apr., p. 49.

Report the climatic conditions in Germany and  
their effects on the rose harvest.

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Schimmel & Co.

1901

Rose Oil, artificial, "Schimmel & Co."

Report, Apr., 1901, p. 51 (Proc. Am. Pharm. Assoc., 49, p. 835.)

Discuss the uses for the 2 types of artificial  
rose oil produced by them.

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Schimmel & Co.

1901

Rose Oil, Artificial, "Schimmel & Co."

Report, Oct., p. 45.

Give the properties and uses of the artificial  
oil of rose as produced by them.

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Schimmel & Co.

1901

Rose Oil, German.

Report, Oct., p. 45.

Report on cultivation of roses in Germany.

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Schimmel & Co.

1901

Rose Oil, Turkish.

Report, Oct., p. 44.

Report on this year's rose harvest in Turkey.

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(Secretary.)

1901

Pure Otto of Rose.

Pharm. Journ., 67, p. 674.

Gives an account of the comments and suggestions offered by the members after Mr. Holmes had finished reading his paper on the subject of Pure Otto of Rose.

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v.Soden, H. & Rojahn, W.

1901

Ueber das Vorkommen des Phenyläthyl-  
alcohols in Rosenölen.

Ber. d.d. Chem. Gesell., 34, p. 2803 (Proc. Am. Pharm. Assoc., 50, p. 986; Schimmel & Co., Report, Apr., 1902, p. 57.)

Report the results obtained in their experiments to ascertain the phenyl - ethyl alcohol content in rose blossoms.

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Umney, J.C.

1901

Otto of Rose, Pure and Artificial.

Pharm. Journ., 67, p. 701 (Proc. Am. Pharm. Assoc., 50, p. 984.)

Compares the pure and artificial otto of rose as to their physical properties, and their odorous principles.

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Walbaum, H.&Stephan, K.

1901

Ueber das deutsche Rosenöl.

Ber. d.d. Chem. Gesell., 33, pp. 2299 & 2303 (Am. Journ., Pharm., 73, p. 199; Proc. Am. Pharm. Assoc., 49, p. 834; Schimmel & Co., Apr., 1901, p. 49; Ibid., Apr., 1911, p. 99.)

Give the method employed and the results obtained when German and Bulgarian rose oils were tested for geraniol and odorless hydrocarbons.

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(Correspondent.)

1902

Artificial Otto of Roses.

Chem. & Drugg., 60, p. 283.

Reports that an artificial otto of roses was granted a German patent and gives the formula for the preparation.

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(Correspondent.)

1902

The Bulgarian Rose - Crop.

Chem. & Drugg., 60, p. 744.

Reports the climatic conditions and their effect on the otto of rose crop.

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Fils, B.

1902

(Russian Otto of Rose.)

Bulletin, ---, p. --- (Chem. & Drugg., 61, p. 1055; Proc. Am. Pharm. Assoc., 51, p. 912.)

(Reports the results obtained in an analysis of a sample of otto of rose produced in the Imperial Apanages of Kachetie (Caucasus).)

The original was not available.

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Hesse, A. & Zeitschel, O.

1902

Ueber Orangenblüthenol II.

Journ. prak. Chem., 174, p. 481 (Schimmel & Co., Report, Oct., 1904, p. 81.)

Discuss the presence of neurol as a constituent of oil of rose.

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Holmes, E.M.

1902

Notes on Pure Otto of Rose.

Chem. & Drugg., 59, p. 966 (Drugg. Circ., 46, p. 31.)

Gives the properties of oil of rose distilled in different countries and methods for determining the purity of these oils.

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Parry, E.J.

1902

Otto of Rose.

Chem. & Drugg., 60, p. 390 (Proc. Am. Pharm. Assoc., 50, p. 985; Schimmel & Co., Report, Apr., 1902, p. 58; Chem. & Drugg., 46, p. 102.)

Comments on methods commonly employed in adulterating oil of rose, and discusses the composition of the oil of rose distilled in various places, and the physical constants of reputable samples.

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Schimmel & Co.

1902

Rose Oil (artificial) "Schimmel & Co."

Report, Apr., 1902, p. 56.

Report that the manufacture of the artificial oil of rose is now a perfect substitute of the true oil and that this artificial oil has been granted a patent by the German government.

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Schimmel & Co.

1902

Rose Oil, German.

Report, Apr., 1902, p. 59.

Report the effect of the climatic conditions upon the yield of the otto of rose.

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Schimmel & Co.

1902

Rose Oil, Turkish.

Report, Apr., 1902, p. 60.

Give the present climatic conditions in the Balkan districts, the steps taken by the Bulgarian Government to prevent adulteration and a table showing the exports of the rose oil.

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Schimmel & Co.

1902

Rose Oil (artificial) "Schimmel & Co."

Report, Oct., p. 74.

Give the German patent number of the artificial oil of rose produced by Schimmel & Co.

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Schimmel & Co.

1902

Rose Oil, Bulgarian.

Report, Oct., p. 74.

Give the measures taken by the Bulgarian Government to prevent adulteration of oil of rose.

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Schimmel & Co.

1902

Rose Oil, German.

Report, Oct., p. 76.

Report the rose harvest in Germany.

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1902

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Otto of Rose.

Chem. & Drugg., 60, p. 49; Drugg.Circ., 46, p. 64.

Gives a comparison of the French and Bulgarian ottos, also the conditions of rose growing in these countries.

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1903

Parry, E. J.

The Refractive Index of Essential Oils.

Chem. & Drugg., 63, p. 246 (Schimmel & Co., Report, Oct., p. 61; Gildemeister, E. & Hoffmann, F., The Volatile Oils, 2 ed., v. 2, p. 562.)

Discusses the value of the refractive index in determining the purity of oil of rose.

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1903

Schimmel & Co.

Rose Oil, artificial, "Schimmel & Co."

Report, Oct., p. 59.

Give the commercial value of the artificial otto of rose produced by Schimmel & Co.

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1903

Schimmel & Co.

Rose Oil, German.

Report, Oct., p. 59.

Report the yield of the otto in Germany and climatic conditions.

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1903

Schimmel & Co.

Rose Oil, Turkish.

Report, Apr., p. 64.

Give the year's yield and market values of otto of rose distilled in Turkey and discuss the action that the Bulgarian Government is taking to prohibit adulteration, of rose oil.

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Schimmel & Co.

1903

Rose Oil, Turkish.

Report, Oct., p. 60.

Give the yield of otto in 1903, the commercial value and the exports of the otto from Turkey.

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Wilbert, M.I.

1903

Oil of Rose.

Am. Journ. Pharm., 75, p. 164.

Discuss new adulteration methods used in adulterating oil of rose and the properties of synthetic rose oil.

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Boyer, J.

1904

(Die Gewinnung des Rosenöls in Bulgarien.)

La Nature, ---, p. --- (Pharm. Post, 37, p. 77; Am. Journ., Pharm., 76, p. 293.)

(Gives the method of producing rose oil as used by the ancients and referred to by Dioscorides in his Materia Medica, the production of rose oil as used in the eighth century, and the modern method as a modification of that introduced in the 16 C. Describes the rose industry in Bulgaria as to the size of the fields and the yield of otto produced.)

The original was not available.

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Graham, W.

1904

Laboratory Notes.

Am. Journ. Pharm., 76, p. 389.

"Of 3 samples of oil of rose examined, 1 had an unusually low congealing point, 7 - 9°C."

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Hudson - Cox, F. & Simmons, W.

1904

The Iodine Absorption as a Factor in the  
Examination of Otto of Rose.

Analyst, 29, p. 175; Pharm. Journ., 73, p. 861 (Proc. Am. Pharm. Assoc., 52, p. 878; Chem. & Drugg., 64, p. 398; Schimmel & Co., Oct., 1904, p. 80; Ibid., 1923, p. 68.)

Give the results obtained in using the iodine absorption factor in testing pure oil of rose and adulterated oil of rose.

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Jeancard, P. & Satie, C.

1904

Contribution a l'analyses des essences  
de rose.

Bull. Soc. Chim. s.3, v. 31, p. 934 (Pharm. Journ., 73, p. 548; Proc. Am. Pharm. Assoc., 53, p. 772; Perf. & Essent. Oil Rec., 8, p. 7; Schimmel & Co., Oct., 1904, p. 79; Gildemeister, E. & Hoffmann, F., The Volatile Oils, 2 ed., v.2, p. 560; Tschirch, Handb., der Pharmak., 1 ed., v. 2, p. 810.)

Give the characters and constants for the French Oil of Rose, the Oil of Tea Rose, and the Bulgarian Otto of Rose.

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Schimmel & Co.

1904

Rose Oil.

Report, Apr., p. 79.

Give the 1903 exports of rose oil from Bulgaria.

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Schimmel & Co.

1904

Rose Oil, artificial "Schimmel & Co."

Report, Apr., p. 80.

Report the increased use of this artificial rose oil.

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Schimmel & Co. 1904

Rose Oil, German.

Report, Oct., p. 77.

Give the effect of the climatic conditions upon the rose harvest in Germany.

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Schimmel & Co. 1904

Rose Oil, Turkish.

Report, Oct., p. 77.

Give the exports of rose oil during the last season from Turkey.

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Schimmel & Co. 1904

Rose Oil (artificial) "Schimmel & Co."

Report, Oct., p. 79.

Give the advantages in using the artificial rose oil of Schimmel & Co.

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Simmons, W. 1904

Otto of Rose.

Chem. & Drugg., 65, p. 703 (Proc. Am. Pharm. Assoc., 53, p. 773; Schimmel & Co., Report, Apr., 1905, p. 68.)

Discusses the use of the iodine absorption number and the refractive index of oil of rose in determining its purity.

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v. Soden, H. 1904

"Ätherische Rosenblutenextrakteöle.

Journ. prakt. Chem., 177, p. 265 (Tschirch, Hand., der Pharmak., 1 ed., v. 2, p. 810.)

Gives the difference in amounts of the constituents of French and German Rose Oils.

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v. Soden, H. & Treff, W.

1904

Ueber einige neue, im Rosenöl vorkommende  
Verbindungen.

Ber. D.D. Chem. Gesell., 37, p. 1094 (Chem. & Drugg., 64,  
p. 1001; Proc. Am. Pharm. Assoc., 52, p. 878; Schimmel & Co.,  
Report, Oct., 1904, p. 81; Tschirch, Handb. der Pharmak.,  
1 ed., v. 2, p. 810.)

Discuss the 3 new constituents which they have  
isolated from oil of rose.

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1904

(The Production of Oil of Rose in  
Bulgaria.)

Pharm. Post, ---, p. 77 (Am. Journ. Pharm., 76, p. 293.)

Briefly describes the production of the  
ancient oil of rose, claims that the distillation process  
for the production of oil of rose was first introduced  
about the 8 C. A.D. Gives a brief description of the  
Bulgarian center of the rose industry and the amount of  
flowers required for the production of one kilo of the oil.

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Schimmel & Co.

1905

Rose Oil, German.

Report, Apr., p. 67.

Report on the last year's crop of oil of rose  
produced in Germany.

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Schimmel & Co.

1905

Rose Oil, Turkish.

Report, Apr., p. 67.

Give the effect of the new-forest-law on the  
market value of oil of rose distilled in Turkey.

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Schimmel & Co. 1905

Rose Oil "Schimmel & CO."

Report, Apr., p. 69.

Discuss the usefulness of the artificial German Rose Oil, produced by Schimmel & Co.

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Schimmel & Co. 1905

Rose Oil.

Report, Oct., p. 59 (Dispens., U.S. Am., 19 ed., p. 870.)

Give the yield of Bulgarian oil of rose and the exports from Bulgaria.

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Schimmel & Co. 1905

Rose Oil, Own Distillate.

Report, Oct., p. 61.

Report the climatic conditions and the quantity of this year's distillate near Leipzig, Germany.

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Lloyd, J.U. 1906

(Pure Attar of Roses.)

Proc., Am. Pharm. Assoc., 54, p. 351 (Am. Journ. Pharm., 78, p. 488.)

Describes his journey through the rose country at the foot of Mt. Olympus, and the rose gardens, the crude stills; and showed samples of the attar obtained from the white rose and the red rose and also samples of the flowers.

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Parry, E. J. 1906

Otto of Rose.

Chem. & Drugg., 69, p. 230 (Proc. Am. Pharm. Assoc., 55, p. 886; Schimmel & Co., Report, Oct., 1906, p. 66.)

Discusses the increased practice in adulteration of the oil of rose produced in Bulgaria.

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Schimmel & Co. 1906

Rose Oil, Bulgarian.

Report, Oct., p. 65 (Gildemeister & Hoffmann, The Volatile Oils, 2 ed., v. 2, p. 552.)

Give the resolutions passes by the conference of rose oil merchants of Bulgaria.

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Schimmel & Co. 1906

Rose Oil, German.

Report, Oct., p. 67 (Proc. Am. Pharm.Assoc., 55, p. 885.)

Give the constants of the oil of rose distilled from the roses grown at the Miltitz Plantations.

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Simmons, W.H. 1906

Alcohol in Otto of Rose.

Chem. & Drugg., 68, p. 20 (Drugg. Circ., 50, p. 91; Schimmel & Co., Report, Apr., 1906, p. 59; Gildemeister & Hoffmann, The Volatile Oils, 2 ed., v.2, p. 562.)

Gives a method for detecting ethyl alcohol in oil of rose.

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Wolf, J.C. 1906

The Preparation of Attar of Roses.

Proc. Maryland Pharm. Assoc., 24, p. 66 (Proc. Am. Pharm. Assoc., 55, p. 885.)

Discusses the cultivation of roses and the distillation of oil of rose in Bulgaria.

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(Correspondent.)

1907

Bulgarian Otto of Rose.

Chem. & Drugg., 71, pp. 64, 97, & 196 (Schimmel & Co., Report, Oct., 1907, p. 78.)

Gives the yield of the 1907 rose crop in Bulgaria.

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Gravereaux, J.

1907

(Rose de l'Hay.)

Journ. de la Parfumerie et Savonnerie francaises 20, p. 146 (Schimmel & Co., Report, Oct., 1907, p. 79.)

(Discusses the cultivation of the Rose de la Hay in France.)

The original was not available.

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Jeancard, P.

1907

(European Oil of Rose.)

Journ. de la Parfumerie et Savonnerie, 20, p. 254 (Am. Perf. 2, p. 192; Schimmel & Co., Report, Apr., 1908, p. 86; Gildemeister, E. & Hoffmann, F., The Volatile Oils, 2 ed., v. 2, p. 554.)

(Gives a comparison of the rose oil industry in Bulgaria with that in France.)

The original was not available.

---

Parry, E.J.

1907

Otto of Rose.

Chem. & Drugg., 71, p. 475 (Schimmel & Co., Report, Apr., 1908, p. 85.)

Discusses the adulteration of rose oil with pure geraniol and its effect on the physical constituents of the rose oil.

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Roure - Bertrand Fils

1907

Rose of Grasse.

Bulletin, s.2, no. 6, p. 51 (Schimmel & Co., Apr., 1908, p. 87.)

Discuss the rose - cultivation in France, and give the amount of the 1907 harvest.

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Schimmel & Co.

1907

Rose Oil, Bulgarian.

Report, Apr., p. 86 (Ibid., Apr., 1908, p. 86; Ibid., Oct., 1908, p. 104.)

Discuss the rose - cultures and the yield of oil in the years 1898, 1899, 1903 & 1904, and the exports of rose oil in the years 1890 to 1905.

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Schimmel & Co.

1907

Rose Oil, Bulgarian.

Report, Oct., p. 77 (Ibid., Apr. 1908, p. 87.)

Give this year's yield of rose oil produced in Bulgaria and the market value of this rose oil.

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Schimmel & Co.

1907

Rose Oil, French.

Report, Oct., p. 78 (Ibid., Apr., 1908, p. 88.)

Discuss the cultivation of roses and the distillation of rose oil in Southern France.

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Schimmel & Co.

1907

Rose Oil, Russian.

Report, Oct., p. 81.

Describe the cultivation of roses in Russia.

---

Schimmel & Co.

1907

Rose Oil, German.

Report, Oct., p. 81.

Give the effect of the existing climatic conditions upon rose cultivation in Germany.

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Vicomtesse de Savigny de Moncorps

1907

(Rose de l'Hay.)

La Revue de Grasse, no. 17, p---(Schimmel & Co., Report, Oct., 1907, p. 80.)

(Discusses the cultivation and the oil obtained from the Rose de l'Hay in France.)

The original was not available.

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Wood, H., Remington, J.P. & Sadtler, S.

1907

Oleum Rosae, U.S., Br.

Dispens. U.S.Am., 19 ed., p. 870.

Gives the U.S. & Br. Pharmacopoeial definitions, synonyms, botanical origin, places of production, properties, U.S.P. assay, adulterants, microscopic examination, uses, and official preparations of oil of rose.

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1907

(French Oil of Rose.)

La Vie a la Campagne, 1, p. 414 (La Revue de Grasse, no.13, p.--;Schimmel & Co., Report, Oct., 1907, p. 78.)

(Discusses the cultivation of roses in South of France.)

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1907

(French Oil of Rose.)

Revue de Grasse, no. 50, p.--(Schimmel & Co., Report, Apr., 1908, p. 87.)

(Discusses the financial question of the cultivation of rose experiment in the Basses - Alpes department, France.)

The original was not available.

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1907

(Rose de l'Hay.)

La Revue de Grasse, no.16, p.--(Schimmel & Co., Report, Oct., 1907, p. 80.)

(Discusses the cultivation - experiments on the Rose de l'hay in France.)

The original was not available.

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1907

(Roseraie de l'Hay.)

L'Illustration, Paris, 7, p. 12 (Schimmel & Co., Apr., 1908, p. 88.)

(An illustrated article regarding the cultivation of the Japanese rose in France.)

The original was not available.

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1907

Russian Rose Oil.

Chem. & Drugg., 70, p. 815 (Schimmel & Co., Report, Oct., 1907, p. 81; Gildemeister & Hoffmann, The Volatile Oils, 2 ed., v. 2, p. 553.)

Give the development of the rose industry in Eastern Trans- Caucasia, Russia.

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(An Importer.)

1908

Otto of Rose.

Pharm. Journ., 81, p. 513 (Proc. Am. Pharm. Assoc., 57, p.328.)

Discusses the modern and ancient methods employed in the preparation of the Bulgarian Otto of Rose.

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Malkoff, K.

1908

(Bulgarian Rose Oil.)

Bericht über die Rosenkulturen in Bulgarien und Frankreich, 1 ed., p.--(Schimmel & Co., Report, 1923, p. 67.)

(Discusses methods of increasing the yield of rose oil in Bulgaria.)

The original was not available.

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Marpmann,---

1908

Neuerungen auf dem Gebiete der Rosenöl-Industrie.

Pharm. Zentralh., 49, p. 671 (Proc. Am. Pharm. Assoc., 57, p. 327.)

Discusses the progress made in the industrial production of oil of rose and gives 3 rules to be followed in the production of oil of rose.

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Naumann, W.

1908

Otto of Rose.

Chem. & D rugg., 73, p. 303 (Schimmel & Co., Report, Oct., 1908, p. 104; Tschirch, Handb., der Pharmak., 1 ed., v. 2, p. 810.)

Gives the physical constants of unadulterated oil of rose, 1908 distillation in Bulgaria.

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Parry, E.J.

1908

Otto of Rose.

Chem. & Drugg., 73, p. 244 (Schimmel & Co., Report, Oct., 1908, p. 104; Tschirch, Handb. Der Pharmak., 1 ed., v.2, p. 810.)

Gives the physical constants of pure samples of the 1908 distillation of otto of rose in Bulgaria.

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Roure - Bertrand Fils

1908

Oil of White Bulgarian Roses.

Bericht., Oct., 1908, p. 28 (Schimmel & Co., Report, Apr., 1909, p. 81; Proc. Am. Pharm. Assoc., 57, p. 328.)

Discusses the inferiority of the oil obtained from the white roses to that obtained from the red roses.

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Schimmel & Co.

1908

Rose Oil, Bulgarian.

Report, Apr., p. 85.

Give the commercial value of Bulgarian Oil of Rose.

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Schimmel & Co.

1908

Rose Oil, Bulgarian.

Report, Oct., p. 103.

Give data relative to the production of rose oil and the exports from Bulgaria.

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Schimmel & Co.

1908

Rose Oil, German.

Report, Oct., p. 109.

Discuss the climatic conditions of the past year and their effect on the rose crop in Germany.

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Soden, H. & Treff, W.

1908

(Some New Components Found In Oil of Rose.)

Moniteur Scientifique, ----, p. ---- (Am. Perf., 3, p. 107.)

(Give data proving that nerol, eugenol and a sesquiterpenic alcohol are normal constituents of oil of rose.)

The original was not available.

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Bontcheff & Kidoff

1909

Bulgarian Rose Distilling.

Chem. & Drugg., 75, p. 196.

Give an illustration "showing the manner in which roses are brought in from the gardens and distilled in alembics."

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(Bulgarian Correspondent.)

1909

Bulgarian Otto of Rose.

Chem. & Drugg., 75, p. 186.

Reports the yield of oil of rose and discusses the question of the adulteration of the otto.

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(Bulgarian otto-of-rose expert.)

1909

Otto of Rose, 1909.

Chem. & Drugg., 75, p. 977 (Schimmel & Co., Report, Apr., 1910, p. 93.)

Discusses the methods employed in adulteration of the otto of rose and lists the physical characteristics of the 1896 and the 1909 crops.

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(International Anti Adulteration Congress.) 1909

Standards for Essential Oils.

Chem. & Drugg., 75, p. 681.

Gives the standard for otto of Rose as "The solidification - point fixed at 17° to 23° C. (proposal of Roure-Bertrand fils)."

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Parry, E.J. 1909

Adulterated Otto of Rose.

Chem. & Drugg., 75, p. 292 (Proc. Am. Pharm. Assoc., 58, p. 321; Schimmel & Co., Report, Oct., 1909, p. 104.)

Gives the results of testing 5 samples of the otto which were "guaranteed pure".

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Parry, E.J. 1909

Bulgarian Otto of Rose.

Chem. & Drugg., 75, p. 186 (Schimmel & Co., Report, Oct., 1909, p. 104.)

Gives the physical constants of the 1909 otto of rose distilled in Bulgaria.

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Parry, E.J. 1909

Otto of Rose, 1909.

Chem. & Drugg., 75, p. 839 (Schimmel & Co., Report, Apr., 1910, p. 93.)

Gives a short discussion of the adulteration of the otto of rose.

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Parry, E.J. 1909

This Season's Otto.

Chem. & Drugg., 75, p. 195.

Gives the physical characteristics of the otto of rose placed on the market by Messers. Shipkoff & Co.

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Schimmel & Co. 1909

Rose Oil, Bulgarian.

Report, Apr., p.81.

Give a map of the rose districts in Bulgaria.

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Schimmel & Co. 1909

Rose Oil, Bulgarian.

Report, Oct., p. 103.

Report the production of pure Rose Oil, tabulated according to districts, Crop 1909, and the rose oil exported, from Bulgaria.

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Schimmel & Co. 1909

Rose Oil, German.

Report, Oct., p. 108.

Report the effect of climatic conditions on the 1909 rose crop in Germany.

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Umney, J.C. 1909

Otto of Rose, 1909.

Chem. & Drugg., 75, p. 786 (Proc. Am. Pharm. Assoc., 58, p. 320; Schimmel & Co., Report, Apr., 1910, p. 93.)

Discusses the physical and chemical characteristics of the brands of the 1909 season's otto of rose as offered on the London market.

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Austerweil, G. & Cochin, G. 1910

Sur quelques relations entre la constitution moléculaire et l'odeur.

Compt. rend., 150, p. 1693 (Pharm. Journ., 59, p. 417; Drugg. Circ., 42, p. 64.)

Give data for believing that the odor of the otto of roses is associated with the  $-CH_2.CR.R.OH$  group.

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Doumin, R. 1910

Otto of Rose.

Perf. & Essent. Oil Rec., 1, p. 173.

In a letter to the editor, gives his opinion regarding the steps that should be taken to lessen the adulteration of otto of rose.

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(Editor.) 1910

Otto of Rose.

Chem. & Drugg., 77, p. 149 (Perf. & Essent. Oil Rec., 1, p. 188.)

Discusses the use of adulterants and the prices of otto of rose.

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Parry, E.J. 1910

Otto of Rose.

Chem. & Drugg., 77, p. 261 (Schimmel & Co., Report, Oct., 1910, p. 111; Perf. & Essent. Oil Rec., 1, p. 188; Ibid., 3, p. 287; Schimmel & Co., Report, Apr., 1912, p. 110.)

Discusses the effect of adulterants upon the physical constants of oil of rose.

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Parry, E.J.

1910

Otto of Rose, a New Adulterant.

Chem. & Drugg., 77, p. 531 (Proc. Am. Pharm. Assoc., 59, p. 396; Perf. & Essent. Oil Rec., 16, p. 344; Schimmel & Co., Report, Apr., 1911, p. 99.)

Discusses the new adulterant which he believes "is doubtless either nonyl or decyl aldehyde; but their physical characters are so similar, and the quantity so small that it was impossible to determine the actual adulterant."

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Roure - Bertrand, Fils.

1910

Otto of Rose.

Perf. & Essent. Oil Rec., 1, p. 265.

Discusses the legislation of Bulgaria prohibiting the importation of adulterants.

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Sachsse, J. & Co.

1910

Melting Point of Oils of Anise and Rose.

Perf. & Essent. Oil Rec., 1, p. 121.

Gives reasons for using the congealing point and not the melting point as a standard of purity of otto of rose.

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Schimmel & Co.

1910

Rose Oil, Bulgarian.

Report, Apr., p. 92.

Give the market value of Bulgarian oil of rose.

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Schimmel & Co.

1910

Rose Oil, Bulgarian.

Report, Oct., p. 108.

Report the production of rose oil from the crop of 1909.

---

Schimmel & Co. 1910

Rose Oil, German.

Report, Oct., p. 111.

Report that a considerable quantity of roses are used to produce an extract, "Red Rose, Schimmel & Co."

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Zimmermann, Chas. & Co. 1910

Otto of Rose in Bulgaria.

Perf. & Essent. Oil Rec., 1, p. 187 (Ibid., 1, p. 265.)

Supplies a map of Bulgaria indicating the relative areas and relative yield of the otto of rose.

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1910

Bulgarian Otto -A Plea For State Regulation.

Perf. & Essent. Oil Rec., 1, p. 80.

Gives reasons for legislation regulating the purity of the otto of rose.

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1910

Otto de Roses (1909 Crop.)

Perf. & Essent. Oil Re., 1, p. 119 (Ibid., 1, p. 188; Ibid., 1, p. 134.)

Reports on the physical constants of 8 samples of otto of rose, obtained from leading shippers.

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1910

Otto of Rose.

Perf. & Essent. Oil Rec., 1, p. 188 (Ibid., 6, p. 74.)

Gives analytical data regarding a new adulterant of otto of rose, the exact composition and identification having not been determined.

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1910

Otto of Rose.

Perf. & Essent. Oil Rec., 1, p. 215.

Gives data on production, chemical constituents and adulterants of otto of rose, with illustrations.

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1910

The Otto of Rose Situation.

Perf. & Essent. Oil Rec., 1, p. 182 (Ibid., 1, p. 265.)

Discusses the condition affecting the rose crop of the present year.

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1910

The Otto of Rose Situation.

Perf. & Essent. Oil Rec., 1, p. 231 (Ibid., 2, p. 174.)

An illustration indicating an artist's conception of the wordy warfare on the current otto of rose situation.

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Bontcheff, E.

1911

Otto of Rose.

Perf. & Essent. Oil Rec., 2, p. 226.

Gives his opinion regarding the rise in the price of otto of rose.

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(Correspondent)

1911

Conditions on New Crop Otto.

Perf. & Essent. Oil Rec., 2, p. 117.

Gives data regarding the present rose crop and factors which are influencing the yield of rose flowers.

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Holmes, E.M.

1911

Oil of Rhodium.

Perf. & Essent. Oil Rec., 2, p. 29 (Remington, Wood, Sadtler, LaWall, Kraemer, & Anderson, Dispens. U.S.Am., 20 ed., p. 787; Ibid., 21 ed., p. 782.)

Gives botanical source, history, and properties of Lignum Rhodium, also properties, uses and microscopic examination of oil of Rhodium and origin of Lignum Rhodium, which is used as an adulterant in Oil of Rose.

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Orozoff, A.

1911

(Otto of Rose.)

Perf. & Essent. Oil Rec., 2, p. 241.

Gives his views regarding the rise in price of otto of rose.

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Parry, E.J.

1911

The Essential Oils of the British Pharmacopoeia.

Chem. & Drugg., 79, p. 450 (Perf. & Essent. Oil Rec., 6, p. 275.)

Gives the physical and chemical constants of the essential oils of the British Pharmacopoeia, including Otto of Rose.

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Seraphimoff, G. 1911

Otto of Rose.

Perf. & Essent. Oil Rec., 2, p. 202.

Discusses the causes of the 50 to 60% rise in the price of otto of rose.

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Schimmel & Co. 1911

Rose Oil, Bulgarian.

Report, Apr., p. 97.

Give in table form the distribution of the rose oil industry in Bulgaria in the years 1909 & 1910 and the exports of rose oil in 1909 & 1910.

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Schimmel & Co. 1911

Rose Oil, Bulgarian.

Report, Oct., p. 74.

Report the yield of rose oil in Bulgaria.

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Schimmel & Co. 1911

Rose Oil, German.

Report, Oct., p. 75.

No rose oil was distilled in Germany in 1911 because of the adverse climatic conditions.

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1911

Otto of Rose.

Perf. & Essent. Oil Rec., 2, p. 147.

Discusses the economic value of the Bulgarian Otto and synthetic otto of rose.

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1911

Otto of Rose.

Perf. & Essent. Oil Rec., 2, p. 167.

Reports the yield of otto produced in the various districts of Bulgaria in 1911 in comparison with the 1910 yield.

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1911

Otto of Rose.

Perf. & Essent. Oil Rec., 2, p. 173.

Discusses the increase in price of otto of rose.

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1911

Otto of Rose.

Perf. & Essent. Oil Rec., 2, p. 174.

An illustration of an artist's conception of the otto of rose situation in 1911 in Bulgaria.

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1911

Otto of Rose Adulteration.

Chem. & Drugg., 79, p. 591 (Drugg. Circ., 56, p. 17.)

Discusses the use of the stearoptene-free otto produced in Germany as an adulterant of the Bulgarian otto.

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1911

The Otto of Rose Position.

Perf. & Essent. Oil Rec., 2, p. 90.

Discusses the synthetic oil of rose and also the adulteration of oil of rose.

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Bontcheff, E.

1912

The Rose Industry of Bulgaria.

Perf. & Essent. Oil Rec., 3, p. 265 (Ibid., 5, p. 346;  
Ibid., 6, p. 275.)

Discusses the history, cultivation, distillation, commerce, adulteration, chemistry, and methods of analysis of otto of rose.

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Orozoff, P.J.

1912

Otto of Rose.

Perf. & Essent. Oil Rec., 3, p. 13.

Discusses the measures proposed by M. Bontcheff for prohibiting the adulteration of otto of rose.

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Schimmel & Co.

1912

Rose Oil, Bulgarian.

Report, Apr., p. 107.

Discuss the condition of the Bulgarian rose oil market.

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Schimmel & Co.

1912

Rose Oil, German.

Report, Apr., p. 111.

Give the effect of climatic conditions on the German rose crop.

---

Schimmel & Co.

1912

Rose Oil, Bulgarian.

Report, Oct., p. 95.

Give the yield of the 1912 rose crop in Bulgaria.

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Schimmel & Co.

1912

Rose Oil, German.

Report, Oct., p. 96.

Give the physical constants of the German rose oil distilled from the 1912 crop.

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Siedler, P.

1912

Rosenkultur und Rosenölgewinnung in Bulgarien.

Pharm. Ztg., 57, p. 817 (Yrbk. Am. Pharm. Assoc., 1, p. 343.)

Discusses the primitive methods employed in Bulgaria, in the distillation of the Bulgarian rose oil, the adulterants used and the yield of the rose oil.

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Siedler, P.

1912

"Über Rosenkultur und Rosenölgewinnung in Bulgarien.

Ber. d.d. Pharm. Gesell., 22, p. 476 (Schimmel & Co., Report, Apr., 1913, p. 89; Gildemeister & Hoffmann, The Volatile Oils, 2 ed., v. 2, p. 555.)

Gives an account of the growing of roses and the manufacture of rose oil in Bulgaria.

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1912

Anatolian Otto of Rose and Other Oils.

Perf. & Essent. Oil Rec., 3, p. 30.

Gives the physical properties of Anatolian Otto of Rose.

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1912

A Positive Clue.

Perf. & Essent. Oil Rec., 3, p. 287 (Schimmel & Co., Report, Apr., 1913, p. 88.)

Gives a test for the detection of gurjun oil as an adulterant of otto of rose.

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1912

Chinchilla Otto of Rose.

Perf. & Essent. Oil Rec., 3, p. 3.

Gives the physical characters of oil of rose distilled at Chinchilla, India.

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1912

New Season's Otto of Rose.

Perf. & Essent. Oil Rec., 3, p. 130.

Gives the physical properties of the 1912 Bulgarian otto of rose.

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1912

On Otto.

Perf. & Essent. Oil Rec., 3, p. 191.

Discusses the conditions affecting the increase in price of otto of rose.

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1912

Otto of Rose.

Perf. & Essent. Oil Rec., 3, p. 291 (Ibid., 3, p. 287; Schimmel & Co., Report, Apr., 1913, p. 88.)

Discusses the use of gurjun oil as an adulterant of oil of rose.

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Bontcheff, E.

1913

The Bulgarian Otto Market.

Perf. & Essent. Oil Rec., 4, p. 367.

Discusses the otto of rose market in Bulgaria.

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Gildemeister, E. & Hoffmann, F.

1913

Oil of Rose.

The Volatile Oils, 2 ed., v. 1., p.137 (Schimmel & Co., Report, 1921, p. 37.)

Give the early history of oil of rose.

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Irk, K.

1913

Ueber den Oelgehalt der ungarischen Oelrosen.

Pharm. Zentralhl., 54, p. 591 (Schimmel & Co., Report, 0 ct., 1913, p. 93.)

Gives data obtained in various experiments in the preparation of rose - oil in Hungary.

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Kleber, C.

1913

(Bulgarian Rose Oil.)

Am. Perf. & Essent. Oil Rev., 8, p. 171 (Schimmel & Co., Report, Apr., 1914, p. 86.)

Discusses the use of the saponification value in determining the adulteration of oil of rose.

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Michel, H.

1913

Rose de Mai.

Journ. des Roses, 37, pp. 100 & 144 (Schimmel & Co., Report, Oct., 1912, p. 93.)

Gives the average annual output of roses in the neighborhood of Grasse, France.

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Schimmel & Co.

1913

Rose Oil, Bulgarian.

Report, Apr., p. 87.

Give a report of the 1912 crop, the market value and the physical constants of Bulgarian oil of rose.

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Schimmel & Co.

1913

Rose Oil, Bulgarian.

Bericht, Oct. 1913, p. 90 (Remington, J., Wood, H., Sadtler, S., LaWall, C., Kraemer, H., and Anderson, J., Dispens. U.S.A., 20 ed., p. 786.

Give the production of rose oil in Bulgaria in the year 1913.

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Taramoff, C.

1913

Otto of Rose Analyses.

Perf. & Ess. Oil Rec., 4, p. 416 (Schimmel & Co., Report, Apr. 1914, p. 86.)

Gives the physical constants of 28 samples of otto of rose sold on the Bulgarian market and also the physical constants of 30 samples, of adulterants of otto of rose.

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1913

Determination of Citronellol in Geranium Oil and Otto of Rose.

Perf. & Essent. Oil Rec., 4, p. 328 (Ibid., 16, p. 344.)

Gives a method for the determination of the citronellol present in otto of rose.

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1913

French Otto of Rose.

Perf. & Essent. Oil Rec., 4, p. 265.

Gives the physical properties of the French Otto of Rose.

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1913

French Otto of Rose.

Perf. & Essent. Oil Rec., 4, p. 403.

Gives the physical and chemical constants of the French otto of rose distilled from white roses.

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1913

Hungarian Roses.

Perf. & Essent. Oil Rec., 4, p. 367.

Gives the yields of otto of rose for the years 1910-1912 from the different species of roses grown in Hungary.

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1913

Otto of Rose.

Perf. & Essent. Oil Rec., 4, p. 91.

Discusses the Smyrna and Persian otto of rose in comparison with the Bulgarian otto.

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1913

Otto of Rose.

Perf. & Essent. Oil Rec., 4, p. 261.

Reports the French developments in the otto of rose industry.

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1913

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Otto of Rose.

Perf. & Essent. Oil Rec., 4, p. 248.

Discusses the market position of otto of rose, also includes an illustration of the new distillation plant of Shipkoff & Co.

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Bontcheff, E.

1914

More Bulgarian Roses.

Perf. & Essent. Oil Rec., 5, p. 344.

Discusses the distillation of oil of rose in Bulgaria and includes illustrations of the exterior and interior view of a distillery at Tarnitcheni.

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Chick, H.G.

1914

Persian Otto of Rose.

Perf. & Essent. Oil Rec., 5, p. 55.

Trade report of the otto of rose of the consular district of Bushire for the fiscal year, 1912-1913.

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Gattefosse, R.M.

1914

French Otto From Garden Roses.

Perf. & Essent. Oil Rec., 5, p. 316 (Schimmel & Co., Report, Oct., 1915, p. 34.)

Gives the properties and yield of the French Otto and the physical and chemical constants of the otto obtained from the Rose Brunner, Lyons Rose, Van Houtte Rose, Nabonnand Rose, and Rose de l'Hay.

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Petkoff, N.

1914

Analysis of Otto of Rose.

Am. Perf., 9, p.197.

Gives the physical and chemical constants of Bulgarian otto of rose.

Petkow, N.

1914

Zusammensetzung und Verfälschung des Rosenöls.

Zeitschr. f. Öffentl. Chem., 20, p. 149; Apoth. Ztg., 29, p. 491 (Pharm. Journ., 93, p. 349; Yrbk. Am. Pharm. Assoc., 3, p. 434; Drugg. Circ., 58, p. 466; Schimmel & Co., Report, Apr., 1915, p. 40.)

Discusses the composition and adulteration of rose oil and records the results obtained including the iodine number and the refractive index.

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Revillet, \_\_\_\_.

1914

(French Rose Oil.)

Lyon Medicall Repertoire, 26, p. 360 (Pharm. Journ., 94, p. 287; Schimmel & Co., Report, Oct., 1915, p. 35.)

(Discusses the diseases of the skin from which the laborers in the rose fields at the Riviera suffer.)

The original was not available.

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Roure-Bertrand, Fils.

1914

Some New Oils From Annam and Elsewhere.

Perf. & Essent. Oil Rec., 5, p. 109/

Reports the analytical data obtained for Caucasian Otto of Rose, 1913.

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Schimmel & Co.

1914

Rose Oil, Anatolian.

Report, April, p. 85 (Yrbk. Am. Pharm. Assoc., 3, p. 434.)

Give the physical constants of the rose oil manufactured in the neighbourhood of Isbarta (Sparta, Asia Minor.)

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Schimmel & Co.

1914

Rose Oil, Bulgarian.

Report, April, p. 85.

Give the market value of oil of rose distilled in Bulgaria.

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Schimmel & Co.

1914

Rose Oil, Persian.

Report, April, p. 86 (Ibid., 1921, p. 38.)

Discuss the production of oil of rose in Persia and its market value.

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1914

New Season's Otto of Rose.

Perf. & Essent. Oil Rec., 5, p. 279.

Gives the physical and chemical constants of the Anatolian otto of rose and the Bulgarian Otto of Rose.

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1914

(Otto of Rose Production in Oregon.)

Oil, Paint, and Drug Reporter, 86, no. 10, p. 10 ( Pharm. Journ., 93, p. 510; Yrbk.Am. Pharm. Assoc., 3, p. 435; Schimmel & Co., Reprt., Oct., 1914/Apr. 1915, p. 40.)

(Discusses the cultivation of roses in the Willamette Valley of Oregon.)

The original was not available.

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Bontcheff, E.

1915

The Otto of Rose Situation.

Perf. & Essent. Oil Rec., 6, p. 77.

Discusses methods by which the rose industry as a whole, could be improved.

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Dietze, F.

1915

(Bulgarian Oil of Rose.)

Südd. Apotheker Ztg., 55, p. 57 (Pharm. Ztg., 60, p. 331; Schimmel & Co., Report, Oct., 1915, p. 34.)

(Discusses the adulteration of oil of rose and compares his own figures, physical constants of the common adulterants of oil of rose, and those obtained by P. Siedler.)

The original was not available.

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(Editor.)

1915

Otto of Rose.

Am. Perf., 10, p. 168.

Gives the market report of the Bulgarian otto of rose (June 11, 1915).

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(Editor.)

1915

Otto of Rose.

Am. Perf., 10, p. 242.

Discusses the effect of the war upon the market value of the otto in Bulgaria.

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(Editor.)

1915

Otto of Rose.

Am. Perf., 10, p. 324.

Gives the amount of the exports of otto of rose from Bulgaria.

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Mendel, J.

1915

(Oil of Rose.)

Deutsch. Parf. Ztg., 1, p. 54 (Schimmel & Co., Report, Oct., 1915, p. 34.)

(Discusses the economic importance of rose oil.)

The original was not available.

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Schimmel & Co.

1915

Rose Oil, Bulgarian.

Report, Oct., p. 32.

Discuss the various factors affecting the production of oil of rose in Bulgaria.

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Shipkoff & Co.

1915

Bulgarian Otto of Rose.

Chem & Drugg., 87, p. 90 (Yrbk. Am. Pharm. Assoc., 4, p. 256.)

Report the decrease in the amount of otto of rose produced in Bulgaria due to adverse weather conditions.

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Siedler, P.

1915

Über einige Konstanten des bulgarischen Rosenöls.

Pharm. Ztg., 60, p. 179 (Schimmel & Co., Report, Oct., p. 33.)

Reports on the properties of a sample of Bulgarian oil of rose guaranteed as pure.

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1915

(Bulgarian Oil of Rose.)

Chem. Industrie, 38, p. 551 (Schimmel & Co., Report, Apr./Oct., 1915, p. 49.)

(Gives a report of Bulgarian rose cultivation in 1914.)

The original was not available.

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1915

Otto of Rose.

Perf. & Essent. Oil Rec., 6, p. 265 (Ibid., 6, p. 275.)

Gives the physical constants of a sample of the new season's otto of rose from Shipkoff & Co. in Bulgaria.

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1915

Otto of Rose Constants.

Perf. & Essent. Oil Rec., 6, p. 275.

Discusses the variation of physical constants of rose oil distilled in different years.

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1915

Refractive Index of Otto of Rose.

Perf. & Essent. Oil Rec., 6, p. 74.

Gives the refractive index of otto of rose before and after washing with water, and the characters of the stearoptene-free otto of rose.

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1915

The Rose and Its Perfume.

Perf. & Essent. Oil Rec., 6, p. 360.

Gives a history of the otto of rose and the properties of the various ottos distilled in Bulgaria and France.

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(Editor.)

1916

Otto of Rose.

Am. Perf., 11, p. 54.

States that Bulgarian government "proposes to form cooperative societies for improving the cultivation of the roses and better processes of distillation."

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Gattefosse, R.M.

1916

French Roses.

Perf. & Essent. Oil Rec., 7, p. 274.

Discusses the effect of the World War on the rose industry in France.

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Gildemeister, E. & Hoffmann, F.

1916

Oil of Rose.

The Volatile Oils, 2 ed., 2, p. 549 (Schimmel & Co., Report, 1921, p. 38; Ibid., 1925, p. 74; Ibid., 1926, pp. 97, 100, 104 & 105.)

Give the origin, production of Bulgarian Oil of Rose, German Oil of Rose, Oil of Rose in France, rose perfume by extraction, properties, composition, examination, production and commerce of oil of rose. Includes numerous illustrations.

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Martell, P.

1916

(Bulgarian Rose Oil.)

Seifenseider Ztg., 43, pp. 325, 343, & 364 (Schimmel & Co., Report, Apr./Oct., 1916, p. 47.)

(Gives a brief history of the rose oil industry in Bulgaria and the present processes employed in the manufacture of rose oil.)

The original was not available.

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Martell, P.

1916

Die Rosenölindustrie in Bulgarien.

Schweiz. Apoth. Ztg., 54, p. 405 (Chem. Abstracts, 10, p. 2614; Yrbk. Am. Pharm. Assoc., 5, p. 317.)

"Gives an account of the cultivation, collection and distillation of the Damascus and white roses."

---

Schimmel & Co.

1916

Oil of Rose, Bulgarian and Anatolian.

Report, Oct., p. 46 (Ibid., 1920, p. 37.)

Discuss the effect of the war on the production of oil of rose in Bulgaria.

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Schimmel & Co.

1916

Oil of Rose, French.

Report, Apr./Oct., p. 49.

Discuss the use of the garden rose for the manufacture of oil of rose in France.

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1916

Bulgarian Attar of Roses.

Perf. & Essent. Oil Rec., 7, p. 13.

States that "the Bulgarian government proposes to utilise the attar of roses in connection with the creation of a native soap industry."

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1916

(Oil of Rose, French.)

Parfum. moderne, 9, p. 50 (Schimmel & Co., Report, Apr./Oct., 1916, p. 49.)

(Reports the effect of unfavorable climatic conditions on the rose crop in France.)

The original was not available.

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1916

Pushing French Otto.

Perf. & Essent. Oil Rec., 7, p. 323.

Discusses the effect of the War on the stock of Bulgarian otto and the substitution of the French otto of rose.

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Bredemann, G.

1917

The Rose Oil Industry in Asiatic Turkey  
(Anatolia).

Schimmel & Co., Report, Apr./Oct., 1917, p. 42.

Gives a review of the area now planted with roses in Asiatic Turkey, the yield of the 1913 crop, and the commercial value of the Anatolian rose oil, and includes a map and 2 illustrations of distilling plants.

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Forwood, A.

1917

French Otto of Rose.

Perf. & Essent. Oil Rec., 8, p. 303.

Discusses the cultivation of roses in France and the adulteration of the Bulgarian and French otto of rose.

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Forwood, A. & Donaldson, \_\_.

1917

The 1917 French Otto of Rose Crop.

Perf. & Essent. Oil Rec., 8, p. 220.

Discusses the conditions affecting the distillation of the otto of rose in France.

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(German Consul General.)

1917

(Otto of Rose, Anatolian.)

Nachr. f. Hand. Ind. u. Landw., 1917, No. 83, p. 3 (Schimmel & Co., Report, 1918, p. 41.)

(Discusses the labor conditions in the rose industry in Turkey.)

The original was not available.

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Parry, E.J.

1917

French Otto of Rose.

Perf. & Essent. Oil Rec., 8, p. 6 (Chem. Abstracts, 11, p. 2017; Yrbk. Am. Pharm. Assoc., 6, p. 348.)

States "that French otto of rose cannot be judged by the standards for Bulgarian otto, because of its widely different character." He also gives analysis of a number of samples of the French otto of rose.

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Schimmel & Co.

1917

Rose Oil.

Report, Apr./Oct., p. 41 (Ibid., 1921, p. 37.)

Give the physical constants of 3 samples of Bulgarian rose oil tested.

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Schimmel & Co.

1917

Rose Oil, Bulgarian.

Report, Apr./Oct., p. 54.

Discuss the production of rose oil in Bulgaria during the war.

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Tschirch, A.

1917

Rosenöl.

Handb. der Pharmak., 1 ed., vol. 2, p. 808.

Gives the chemical composition of the oil of rose and the physical and chemical constants of the constituents with references and history.

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1917

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French Otto of Rose.

Perf. & Essent. Oil Rec., 8, p. 279.

An illustration "of the first delivery of 1917 French otto of rose received by Chas. Zimmermann & Co., Limited, from their principals, Montaland, Seve Robert et Cie., of Hyeres, France."

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1917

Otto of Rose Production in 1916 Smaller than Usual.

Drugg.Circ., 61, p. 38.

Gives the average yearly production of otto of rose in Bulgaria and the production of the otto in Bulgaria in 1916.

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(Consul)

1918

Otto of Rose.

Perf. & Essent. Oil Rec., 8, p. 305.

Gives the climatic conditions in Bulgaria in 1918 and their effect on the rose crop.

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Remington, J., Wood, H. Jr., Sadtler, S., LaWall, C., 1918  
Kraemer, H., and Anderson, J.

Oleum Rosae, Br.

Dispens. U.S.A., 20 ed., p. 785.

Note that Oil of Rose is not official in the U.S.P.IX, Br. Pharmacopoeial definition, places of production, differences in oils produced in different countries, properties, Assay - U.S.P.VII, adulterants, uses, and official British preparation of oil of rose.

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Schimmel & Co.

1918

Otto of Roses, Anatolian.

Report, 1918, p. 41.

Give the commercial value of Anatolian oil of rose.

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Schimmel & Co.

1918

Otto of Roses, Bulgarian.

Report, 1918, p. 41.

Discuss the cultivation of roses in Bulgaria.

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1918

(Bulgarian Otto of Rose.)

Wirtschaft Ztg. Zentralmächte---, p.---(Cehm & Drugg., 90, p. 898; Yrbk. Am. Pharm. Assoc., 7, p. 422.)

(Gives information regarding the organization of a league "Rozowa Banka" to safe guard the interests of the producers of rose-oil.)

The original was not available.

---

1918

(Bulgarian Rose Oil.)

Deutsche Levante-Zeitung, 8, p. 223 (Schimmel & Co., Report, 1918, p. 43.)

(States that local taxes on rose oil are planned in Bulgaria.)

The original was not available.

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(Editor)

1919

New Factor in Otto of Rose.

Perf. & Essent. Oil Rec., 10, p. 216.

Mentions the establishment of the organization of the Bank of Roses in Bulgaria.

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Elze, A.

1919

Deutsches Rosenextraktöl.

Chem. Ztg., 43, p. 747 (Journ. Soc. Chem. Ind., 39, p. 43A; Yrbk. Am. Pharm. Assoc., 9, p. 483; Perf. & Essent. Oil Rec., 11, p. 51; Schimmel & Co., Report, 1920, p. 51.)

Reports the constituents found in the German Oil of Rose as determined by extraction with volatile solvents.

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Schimmel & Co.

1919

Rose Oil, Anatolian.

Report, p. 43.

Discuss the development of the rose industry in Anatolia.

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Schimmel & Co.

1919

Rose Oil, Bulgarian.

Report, p. 43.

Give the approximate yield of the 1919 rose crop grown in Bulgaria.

---

Schimmel & Co.

1919

Rose Oil from Cyprus.

Report, 1919, p. 44 (Ibid., 1928, p. 82.)

Discuss the methods employed in the distillation of rose oil in Cyprus.

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Srivastara, J.P.

1919

The Perfume Industry in Ghazipur.

Perf. & Essent. Oil Rec., 10, p.190 (Schimmel & Co., Report, 1920, p. 51; Ibid., 1923, p. 67.)

A discussion of the cultivation of roses in India.

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1919

Bulgaria - Where the Oil of Rose Comes From.

Drugg. Circ., 63, p. 152.

Gives the effect of the climatic conditions in 1918 on the yield of otto of rose.

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1919

Cyprus Otto of Rose.

Perf. & Essent. Oil Rec., 10, p. 140 (Ibid., 18, p. 346; Schimmel & Co., Report, 1919, p. 45.)

Discusses the methods of distillation and the constants of oil of rose in Cyprus.

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1919

Cyprus Otto of Rose.

Perf. & Essent. Oil Rec., 10, p. 29 (Ibid., 18, p. 346; Schimmel & Co., Report, 1919, p. 45.)

Gives information regarding the cultivation and distillation of oil of rose in Cyprus.

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1919

Otto of Rose.

Drugg. Circ., 63, p. 337.

Discusses the Governmental control of all otto of rose in Bulgaria.

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1919

(Rose Oil, Anatolian).

Nachr. f. Hand., Ind. u. Landw., 1918, no. 161, p. 9 (Schimmel & Co., Report, 1919, p. 43.)

(Discusses the reasons for not cultivating the rose fields in Anatolia.)

The original was not available.

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1919

(Rose Oil, Bulgarian.)

Deutsche Levante- Ztg., 8, p. 474 (Schimmel & Co., Report, 1919, p. 43.)

(Discusses the production of rose oil in Bulgaria.)

The original was not available.

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1919

(Rose Oil, Indian.)

Rev. des produits Chim., 22, p. 647 (Schimmel & Co., Report, 1921, p. 39.)

(Discusses the preparation and uses of rose oil and rose water in Morocco.)

The original was not available.

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1919

The Price of Otto of Rose.

Perf. & Essent. Oil Rec., 10, p. 188.

Discusses the Bulgarian Government's control of the price of the otto of rose.

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(Jeancard, P.)

1920

(Rose Distillation in Asia Minor.)

\_\_\_\_\_, \_\_\_\_\_, p. \_\_\_\_\_ (Perf. & Essent. Oil Rec., 11, p. 210; Schimmel & Co., Report, 1921, p. 37.)

(Gives a description of the distillation in Asia.)

The original was not available.

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Kemper, G.H.

1920

Production of Attar of Roses in Bulgaria.

U.S. Commerce Reports, Mar. 6, 1920 (Am. Journ. Pharm., 92, p. 428; Yrbk. Am. Pharm. Assoc., 9, p. 482; Schimmel & Co., Report, 1921, p. 38.)

Discusses the effects of the European War upon the rose industry.

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Lorgues, J.

1920

Rose Cultivation in France.

Chem. & Drugg., 93, p. 1629 (Wood, H., LaWall, C., Youngken, H., Anderson, J., & Griffith, I., Dispens. U.S.A., 21 ed., p. 781; Yrbk. Am. Pharm. Assoc., 9, p. 483.)

Gives a description and properties of the "Rose de Mai" oil and the oil obtained by the distillation of the varieties of Jarden roses.

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Massera, V. & Monti, G.

1920

(Italian Rose Oil.)

Riv. ital. delle ess. e dei prof., 2, p. 8 (Schimmel & Co., Report, 1926, p. 102.)

(Give the physical constants of oil of rose distilled from Brunner roses in Italy.)

The original was not available.

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Schimmel & Co.

1920

Rose Extract Oil, German.

Report, 1920, p. 51 (Ibid., 1923, p. 67.)

Give the properties of an oil obtained from *Rosa centifolia* by means of an easily volatile solvent.

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Schimmel & Co.

1920

Rose Oil (Attar of Roses), Bulgarian.

Report, 1920, p. 50 (Ibid., 1921, p. 38.)

Discuss the production of oil of rose in Bulgaria since 1915 and the culture of roses in India.

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1920

Importation of Otto of Roses into Australia.

Perf. & Essent. Oil Rec., 11, p. 211.

Gives 6 reasons why the commonwealth customs authorities should permit the importation of otto of roses from Bulgaria.

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1920

(Oil of Rose - Domestic.)

Pacif. Drug. Rev., 32, p. --- (Pharm. Era, 53, p. 324; Yrbk. Am. Pharm. Assoc., 9, p. 482.)

(Discusses the commercial aspect of the rose industry in the United States and Bulgaria.)

The original was not available.

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1920

The Otto of Rose Situation.

Perf. & Essent. Oil Rec., 11, p. 88.

Discusses the conditions affecting the course of the otto of rose market in 1920.

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(Editor.)

1921.

Bulgarian Rose Reports Disputed.

Am. Perf., 16, p. 511.

Gives data concerning the rose situation in the Valley of Roses - Bulgaria.

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Kyulyumov, K.J. & Stefanova, M.

1921

(Bulgarian Oil of Rose.)

Rev. Agric. Inst. Recherches Agr. Bulgare, 2, p.1 ( Yrbk. Br. Pharm. Conf., 60, p.118; Schimmel & Co., Report, 1925, p. 74.)

(Gives the physical constants of the 1921 Bulgarian Otto of Rose.)

The original was not available.

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Schimmel & Co.

1921

Rose Oil, Anatolian.

Report, 1921, p. 37.

Discuss the history of the rose industry in Asia Minor.

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Schimmel & Co.

1921

Rose Oil, Bulgarian.

Report, 1921, p. 37.

Record data on the 1921 yield of rose oil in Bulgaria.

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Schimmel & Co.

1921

Rose Oil, French.

Report, 1921, p. 38.

Give the constants of the oils distilled from the several varieties of roses grown in France.

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Schimmel & Co.

1921

Rose Oil, Indian.

Report, 1921, p. 38.

Discuss the distillation of rose oil in India.

---

Shipkoff, T.

1921

Up-To-Date Facts About Bulgaria's Rose Industry.

Am. Perf., 16, p. 48 (Schimmel & Co., Report, 1922, p. 61.)

Discusses the development of the rose industry in Bulgaria, and the influence of the war upon the rose industry.

---

Christoff, \_\_\_\_.

1922.

(Rose Culture and Rose-Oil Production in Bulgaria.)

Deutsche Parf.-Ztg., 8, p. 355 (Schimmel & Co., Report, 1923, p. 67.)

(Discusses the history of the rose industry in Bulgaria.)

The original was not available.

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(Editor.)

1922

Bulgaria's Otto of Rose Industry.

Am. Perf., 17, p. 308.

Discusses the effects of the World War on the otto of rose industry in Bulgaria.

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(Editor.)

1922

Rose Oil

Am. Perf., 17, p. 34.

Gives the development of the otto of rose industry in Hungary.

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(Editor)

1922

Testing American Roses for Oil.

Am. Perf., 17, p. 391.

Describes the methods used by the Newark Technical School in determining the practical value of rose blossoms for oil production in New Jersey.

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Gadre, S.T. & Mukerji, B.C.

1922

(Indian Rose Oil.)

Journ. of Indian Industries and Labour, \_\_, Feb., p. \_\_  
(Journ. Soc. Chem. Ind., 41, R. 192; Schimmel & Co., Report, 1923, p. 68.)

(Discuss ways of increasing the yield of rose oil distilled in India.)

The original was not available.

---

Kemper, G.H.

1922

Otto of Rose.

Am. Perf., 17, p. 562.

Report of imports and exports of otto of rose in Bulgaria.

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Osborne, J.

1922

Essential Oils and Perfumes in Italy.

Am. Perf., 17, p. 216 (Schimmel & Co., Report, 1923, p. 68.)

Discusses the cultivation of the Brunner Rose in Italy.

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Schimmel & Co.

1922

Rose Oil, Bulgarian.

Report, 1922, p. 61.

Discuss the illegitimate trade in rose oil in Bulgaria.

---

Schlienger, F. 1922

(French Roses.)

Oil, Paint and Drug Reporter, 102, no. 18, p. 83 (Schimmel & Co., Report, 1923, p. 67.)

(Gives the yield of rose blossoms in France.)

The original was not available.

---

Schipkoff & Co. 1922

Otto of Rose.

Perf. & Essent. Oil Rec., 13, p. 305.

Gives a report of the yield of otto of rose from the 1922 crop in Bulgaria.

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(Special Correspondent.) 1922

Otto of Rose Crop in Bulgaria.

Am. Perf., 17, p. 260.

Reports the yield of the rose crop in Bulgaria, which is 20% greater than last year.

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1922

Bulgarian Otto of Rose.

Chem & Drugg., 96, p. 794 (Schimmel & Co., Report, 1923, p. 66.)

Discusses the formation of the Association of Bulgarian Otto of Rose Manufacturers.

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1922

(Bulgarian Rose Oil.)

Rev. de la Parfum., de la Coiffure et des Industries s'y rattachant, 2, p. 203 (Schimmel & Co., Report, 1923, p. 66.)

(Discusses the production of oil of rose in Bulgaria in 1921 & 1922.)

The original was not available.

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1922

Vereinigung der bulgarischen Rosenöl-  
produzenten.

Chem. Industrie, 45, p. 429 (Schimmel & Co., Report, 1923, p.66.)

Discusses the formation of the Union of Bulgarian Rose - Oil Producers.

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Burns, W.E.

1923

Report on Rose Culture in Florida and  
Oregon.

Am. Perf., 18, p. 280 (Schimmel & Co., Report, 1924, p. 76.)

Discusses the cultivation of roses in Florida and Oregon in the United States.

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Karleskind, \_\_\_\_.

1923

(The Cultivation of the Rose in France.)

Les Parfumes de France, \_\_\_\_, p. \_\_\_\_ (Am. Perf., 18, p. 283;  
Schimmel & Co., Report, 1924, p. 75.)

(Discusses the cultivation of roses in France.)

The original was not available.

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Massatch, C.

1923

Über Verfälschungen des Bulgarischen Rosenöls.

Pharm. Ztg., 68, p. 832 (Wood, H., LaWall, C., Youngken, H.,  
Anderson, J., and Griffith, I., Dispens. U.S.A., 21 ed., p. 782;  
Yrbk. Am. Pharm. Assoc., 12, p. 278.)

Gives tests and results obtained in the determination of the purity of oil of rose.

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Schimmel & Co.

1923

Rose Oil, Bulgarian.

Report, 1923, p. 66.

Gives the yield of rose oil in 1923 and the market value of Bulgarian rose oil.

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Schimmel & Co.

1923

Rose Oil, French.

Report, 1923, p. 67.

Discuss the cultivation of roses in France.

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Schimmel & Co.

1923

Rose Oil, Indian.

Report, 1923, p. 67.

Discuss the distillation of rose oil in India.

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Schimmel & Co.

1923

Rose Oil, Italian.

Report, 1923, p. 68.

Discuss the production of otto of rose in Italy.

---

Schimmel & Co.

1923

Rose Oil, Moroccan.

Report, 1923, p. 68.

Describe the method of distillation of rose oil in Morocco.

---

Shipkoff & Co.

1923

Otto of Rose Crop.

Chem & Drugg., 99, p. 69 (Schimmel & Co., Report, 1924, p. 74.)

Give the yield of the 1923 rose crop in Bulgaria.

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1923

(Bulgarian Oil of Rose.)

Eildienst, 8,I, no. 2, p.2 (Schimmel & Co., Report, 1923, p.66.)

(Discusses the law passes by the Bulgarian Government to encourage the cultivation of roses.)

The original was not available.

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Bie Ravndal, G.

1924

Otto of Rose.

Am. Perf. & Essent. Oil Rev., 18, p. 658.

Discusses the effect of the World War on the otto of rose industry in Turkey.

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Rovesti, G.

1924

(Rose de Mai.)

Profumi italici, 2, p. 107 (Schimmel & Co., Report, 1925, p. 74.)

(Discusses the cultivation of the Rose de Mai in France and the distillation of the volatile oil.)

The original was not available.

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Schimmel & Co.

1924

Rose Oil, Bulgarian.

Report, 1924, p. 74.

Give data on the production of rose oil in Bulgaria and market value since 1911.

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Schimmel & Co.

1924

Rose Oil, French.

Report, 1924, p. 75.

Discuss the cultivation of roses and production of rose oil in France.

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Schimmel & Co.

1924

Rose Oil, Spanish.

Report, 1924, p. 76.

Discuss the cultivation of roses at Chinchilla, Spain.

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Stefanowa, M.

1924

(Standards for Bulgarian Rose Oil.)

Rev. Inst. Recherches Argon. Bulgar., 3, p. 30  
(Chem. Abstracts., 20, p. 1688; Yrbk. Am. Pharm. Assoc.,  
15, p. 286.)

(Reports the results of an investigation to obtain standards of pure Bulgarian rose oils.)

The original was not available.

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Batzouroff, J. & Sons

1925

Production of Otto of Rose in Bulgaria in 1924.

Perf. & Essent. Oil Rec., 16, p. 303.

Give statistics on the yield of otto in the provinces of Bulgaria for the year 1924.

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Blisnakoff, T.

1925

The Cultivation of Roses in Bulgaria.

Perf. & Essent. Oil Rec., 16, p. 289.

Discusses the producing territory and its soil, the conditions for cultivating roses, the varieties of roses, the harvest, the rose fields including statistical details concerning the Bulgarian rose cultivation and otto of Rose industry, peasant distillation, the manufacture, and internal and export trade of otto of rose. Illustrations included.

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Bontcheff & Kidoff 1925

Bulgarian Otto of Rose.

Chem & Drugg., 103, p. 112 (Schimmel & Co., Report, 1926, p. 97.)

Give the yield of oil of rose distilled from the 1925 rose crop in Bulgaria.

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Doukhovnikoff, D. 1925

Price of Bulgarian Rose Flowers and Otto.

Perf. & Essent. Oil Rec., 16, p. 123.

Gives a report of the Chamber of Commerce and Industry of Plovdiv, Bulgaria regarding the determination of the price of otto of rose.

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Fayaud "Esperis" 1925

(Rose Oil.)

Riv. ital. delle ess. e dei prof., 7, p. 93 (Schimmel & Co., Report, 1926, p. 102.)

(Gives the physical constants of oil of rose distilled from Brunner Roses in Italy.)

The original was not available.

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Garnier, R. 1925

(Bulgarian Oil of Rose.)

Parfum. moderne, 18, p. 172 (Schimmel & Co., Report, 1926, p. 100.)

(Gives the quantity of Bulgarian Oil of Rose imported by France in 1923. )

The original was not available.

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Georgieff, C. 1925.

Advice to Bulgarian Rose Cultivators.

Perf. & Essent. Oil Rec., 16, p. 441 (Schimmel & Co., Report, 1927, p. 92.)

Gives methods for improving the rose gardens of Bulgaria.

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Martell, P. 1925

Die Rosenölindustrie in Bulgarien.

Chem. Ztg., 49, p. 569 (Schimmel & Co., Report, 1926, p. 100)

Gives the history, cultivation of roses, the preparation of oil and rose water by the old method and by modern processes, the distribution of the rose gardens and of small and large factories, and the economic importance of the industry for Bulgaria.

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Rovesti, P. 1925

(The Rose in Italy.)

Profumi italica 3, p.102 (Riv. ital. delle ess. e dei prof., 2, p. 92; Perf. & Essent. Oil Rec., 16, p. 324; Schimmel & Co., Report, 1926, p. 101.)

(Discusses the cultivation of roses in Italy. Illustrated.)

The original was not available.

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Schimmel & Co. 1925

Rose Oil, Bulgarian.

Report, 1925, p. 71 (Ibid., 1926, p. 97.)

Report the yield of otto of rose in Bulgaria for 1925 and the exports of it from Bulgaria.

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Shipkoff & Co. 1925

The Otto of Rose Situation.

Perf. & Essent. Oil Rec., 16, p. 176.

Report on the probable 1925 rose crop.

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Simmons, W. 1925

Otto of Rose from the Analyst's Point of View.

Perf. & Essent. Oil Rec., 16, p. 341 (Schimmel and Co., Report, 1926, p. 104.)

Discusses the genuine otto of rose with reference to the nature of the raw material, the process of distillation, the distillation plant employed, the composition of the otto, standards and examination as to specific gravity, optical rotation, refractive index, melting point, saponification value, total alcohols, citrolellol and stearoptane.

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Srivastva, A.N. 1925

Manufacture of Floral Ottos.

Perf. & Essent. Oil Rec., 16, p. 5.

Gives a method for the manufacture of floral ottos by the use of fixative creams.

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1925

A Review of the Rose as pertaining to Perfumery.

Perf. & Essent. Oil Rec., 16, p. 283 (Schimmel & Co., Report, 1926, p. 98; Parfum. moderne, 18, p. 165.)

Gives the early records of distillation, the distillation in ancient Bulgaria, the modern methods of distillation employed in Bulgaria, the commerce of Bulgaria, the botany of the rose, the genesis of the rose perfume, and the hybrids of roses.

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1925

Bulgarian Rose Oil Industry.

Chem. & Drugg., 102, p. 623 (Schimmel & Co., Report, 1926, p. 99.)

Gives the differences in the views of the rose growers and the oil producers of Bulgaria in regard to the price of the rose petals for the coming season.

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1925

France and the Rose Perfume.

Perf. & Essent. Oil Rec., 16, p. 316 (Schimmel & Co., Report, 1926, p. 101.)

Discusses the planting and working a rose plantation, the rose crop, the enemies of the rose, the varieties cultivated and the manufacture of the otto of rose.

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1925

Interesting Points on Bulgarian Rose Industry.

Perf. & Essent. Oil Rec., 16, p. 93 (Ibid., 16, p. 113.)

Discusses conditions affecting the price of the otto of rose. Includes 2 illustrations of the manufacture of the otto at the distillery of Orozoff and Fils, Kazanlik, Bulgaria.

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1925

Notes on French Houses.

Perf. & Essent. Oil Rec., 16, p. 319.

Gives descriptions and illustrations of the following French companies manufacturing the otto of rose: Etablissements Chiris, Roure-Bertrand Fils, Bruno Court, and Tombarel Freres.

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1925

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Notes on Large Bulgarian Distilleries.

Perf. & Essent. Oil Rec., 16, p. 305.

Discusses the distillation process and includes illustrations from the following companies:- Bottu Mitow, Botu Pappazoglou and Cie., Joseph Batzouroff and Sons, M. Velizar Bogaroff, Bontcheff and Kidoff, Constantin Mintcheff and Ketchedjieff, Theodore Christo-Christoff, and Charles Garnier et Fils.

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1925

Otto of Rose.

Perf. and Essent. Oil Rec., 16, p. 179.

Discusses the influence of climatic conditions on the 1925 rose crop.

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1925

Otto of Rose Yield Poor.

Drugg. Circ., 69, p. 306.

Gives the total yield of otto of rose in Bulgaria for 1925.

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1925

Rose Oil Industry.

Perf. & Essent. Oil Rec., 16, p. 113.

States that "Bulgarian Government has prohibited the export of rose tree cuttings."

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1925

The 1925 Season.

Perf. & Essent. Oil Rec., 16, p. 304.

Discusses the conditions responsible for the decrease in yield of otto of rose in 1925.

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Batzouroff, C.

1926

(The Bulgarian Rose Industry.)

La Bulgarie \_\_\_\_, p. \_\_\_\_ (Perf. & Essent. Oil Rec., 17, p. 391;  
Parfum. moderne, 19, p. 196; Schimmel & Co., Report, 1927,  
p. 91.

(Discusses the manufacture of otto of rose during  
1925 and conditions influencing the market value of the otto.)

The original was not available.

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Bontcheff, E.

1926

(Otto of Rose.)

Perf. & Essent. Oil Rec., 17, p. 363.

Discusses the new stills of Messers. Bontcheff &  
Kidoff at Kazanlik and at Tarnitcheni, Bulgaria.

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Bontcheff & Kidoff

1926

(Otto of Rose.)

Perf. & Essent. Oil Rec., 17, p. 268 (Schimmel & Co.,  
Report, 1927m p. 91.)

Discuss present climatic conditions in Bulgaria  
and tabulate the yield of otto of rose in Bulgaria for the  
past 14 years.

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Bontcheff & Kidoff

1926

The Bulgarian Rose Industry.

Perf. & Essent. Oil Rec., 17, p. 224.

Advise extending the cultivation of roses in  
Bulgaria.

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(Correspondent)

1926

Grasse Perfume Flowers.

Chem. & Drugg., 104, p. 724 (Schimmel & Co., Report, 1927,  
p. 92.)

Discusses methods employed in France for the preparation of oil of rose.

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(Editor.)

1926

Rose Oil Exports.

Am. Perf. & Essent. Oil Rev., 21, p.47.

Gives the exports of oil of rose from Bulgaria in October 1925.

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(Editor.)

1926

Rose Oil Exports.

Am. Perf. & Essent. Oil Rev., 21, p. 105.

Gives the exports of oil of rose from Bulgaria in November 1925.

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(Editor.)

1926

Rose Oil Exports.

Am. Perf. & Essent. Oil Rev., 21, p. 295.

Gives the exports of oil of rose from Bulgaria in February and March 1926.

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(Editor.)

1926

Rose Oil Exports.

Am. Perf. & Essent. Oil Rev., 21, p. 349.

Gives the exports of oil of rose from Bulgaria in April 1926.

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Schimmel & Co.

1926

Rose Oil, Bulgarian.

Report, 1926, p. 96.

Give the yield of the 1925 rose crop in Bulgaria and the total export of rose oil from Bulgaria.

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Schimmel & Co.

1926

Rose oil, French.

Report, 1926, p. 101.

Discuss the cultivation of roses in France.

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Schimmel & Co.

1926

Rose Oil, Italian.

Report, 1926, p. 101.

Discuss the production of rose oil in Italy.

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Schimmel & Co.

1926

Rose Oil, Persian.

Report, 1926, p. 103.

Give the exports of rose water from Bushire in the years 1911, 1912, 1913, 1924, and 1925, and also the yearly quantity of rose oil distilled in Persia.

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Tiano, D.

1926

(Rose Oil, Greek.)

Dept. of Commerce, Washington, Chem. Div., No. 106 C.,  
Nov. 9, 1926 (Schimmel & Co., Report, 1927, p. 93.)

(Reports the cultivation of roses in Macedonia.)

The original was not available.

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Wood, H., LaWall, C., Youngken, H.,  
Anderson, J., and Griffith, I.

1926

Oleum Rosae. Br.

Dispens. U.S.A., 21 ed., p. 780.

Give the Br. Pharmacopoeial definition,  
synonyms, places of production, properties, U.S.P.VII  
assay, adulterants, tests for adulterants, synthetic rose  
oil, uses and official preparations of oil of rose.

---

Zlataroff, A.

1926

(Rose Industry.)

La rose et l'industrie de l'essence de roses en Bulgaria,  
pamphlet (Schimmel & Co., Report, 1927, p. 92.)

(Discusses the rose industry of Bulgaria and  
includes illustrations.)

The original was not available.

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1926

Bulgarian Otto of Rose

Perf. & Essent. Oil Rec., 17, p. 280.

Reports the value of the exports of rose oil from  
Bulgaria in 1925.

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1926

Das griechische Rosenöl.

Chem. Industrie, 49, p. 882 (Schimmel & Co., 1927, p. 93.)

Discusses the growth of the rose oil industry in  
Macedonia.

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1926

(Manufacture of Rose Oil.)

Parfums de France, 4, p. 139 (Yrbk. Am. Pharm. Assoc.,  
15, p. 286.)

(A "detailed description of the manufacture of oil of rose with an outline of its composition and constants.")

The original was not available.

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1926

(Rose Oil, Anatolian.)

Handelsberichten (Teh Hague) 20, p. 114 (Schimmel & Co., Report, 1926, p. 96.)

(Gives the 1924 yield of otto of rose in Asia Minor and the quantities exported.)

The original was not available.

---

(American Consul.)

1927

The Adulteration of Otto of Rose.

Pharm. Journ., 119, p. 103 (Yrbk. Am. Pharm. Assoc., 16, p. 471.)

A report on what the Union of Bulgarian Rose Growers are doing to stop the adulteration of rose oil.

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(Editor.)

1927

Otto of Rose.

Am. Perf. & Essent. Oil Rev., 22, p. 249.

Discusses the efforts made by Bulgarian and Turkish Governments to stop the adulteration of oil of rose.

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(Editor.)

1927

Rose Oil Exports.

Am. Perf. & Essent. Oil Rev., 22, p. 479.

Gives the exports of oil of rose from Bulgaria in March 1927.

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Gasopoulos, J. 1927

Über das griechische Rosenöl.

Arch. d. Pharm., 265, p. 41 (Perf. & Essent. Oil Rec., 18, p. 380; Schimmel & Co., Report, 1928, p. 82.)

Gives the physical constants of the oils from *Rosa damascena*, 1922 and 1923 crops.

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Schimmel & Co. 1927

Rose Oil, Bulgarian.

Report, 1927, p. 90.

Give the yield and market value of the 1926 rose oil distilled in Bulgaria.

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Schimmel & Co. 1927

Rose Oil, French.

Report, 1927, p. 92.

Give a method of preparing rose oil as employed in France which yields 33 1/3% more oil.

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Simmons, W.H. 1927

Cyprus Otto of Rose.

Perf. & Essent. Oil Rec., 18, p. 346 (Chem. Abstracts., 20, p. 4018; Yrbk. Am. Pharm. Assoc., 16, p. 472; Schimmel & Co., Report, 1928, p. 82.)

Gives the physical constants of a sample of oil of rose distilled at Kykka Monastery, Cyprus.

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Zander, H. 1927

Die Industrie der ätherischen Oele.

Chem. Industrie, 50, p. 1176 (Schimmel & Co., Report, 1928, p. 82.)

Gives the average quantity of rose oil distilled in Southern France during the past few years.

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Zander, H.

1927

Die Industrie der Atherischen Oele.

Chem. Industrie, 50, p. 1365 (Schimmel & Co., Report, 1928, p. 82.)

Discusses the methods of obtaining the rose oil in Italy.

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1927

(Adulteration of Oil of Rose.)

Drugg. Circ., 71, p. 888.

The Bulgarian law regarding adulteration of oil of rose is not strict enough.

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1927

Aussenhandel Bulgariens mit Chemikalien  
in den Jahren 1925 und 1924.

Chem. Industrie, 50, p. 102 (Schimmel & Co., Report, 1927, p. 92.)

Includes the report of the exports of oil of rose from Bulgaria during the years 1924 & 1925.

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1927

Bulgarian Rose Growers and Adulteration.

Perf. & Essent. Oil Rec., 18, p. 227.

Discusses the plan of the Union of Bulgarian Rose cultivators regarding rose cultivation and Adulteration.

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1927

Bulgarian Rose Oil.

Chem. & Drugg., 107, p. 177 (Schimmel & Co., Report, 1928, p. 81.)

Gives the total production of otto of rose in Bulgaria since 1914.

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1927

Bulgarian Rose Oil.

Chem. & Drugg., 107, p. 177 (Yrbk. Am. Pharm. Assoc., 16, p. 471.)

Discusses the reasons for the considerable decrease in the yield of oil of rose since 1918.

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1927

Bulgarian Rose Oil Exports.

Chem. & Drugg., 107, p. 48 (Schimmel & Co., Report, 1928, p. 81.)

Give the quantities of oil of rose exported from Bulgaria.

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1927

Die Rosenölgewinnung Bulgariens.

Pharm. Zent., 68, p. 238 (Yrbk. Am. Pharm. Assoc., 16, p. 471.)

Discusses the history of the oil of rose and the 2 methods for its preparation.

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1927

Die Rosenölproduktion.

Chem. Industrie, 50, p. 867 (Schimmel & Co., Report, 1928, p. 81.)

Gives the market value of the rose oil exported from Bulgaria.

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1927

(Oil of Rose.)

Drugg.Circ., 71, p. 1134.

"Refuges from Asia Minor have started the cultivation of Damascene roses for the production of rose oil in Macedonia, Greece. From a few acres planted this year, a small quantity of oil, which is claimed to be superior to the Bulgarian, has been produced."

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1927

(Oil of Rose.)

LaBulgarie, \_\_\_\_, p. \_\_\_\_ (Department of Commerce, Washington, World Trade Notes on chemicals and allied products, 1, no. 2, p. 9; Schimmel & Co., Report, 1928, p. 81.)

(Discusses the law prohibiting adulteration of oil of rose in Bulgaria.)

The original was not available.

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1927

Otto of Rose, 1927.

Perf. & Essent. Oil Rec., 18, p. 249 (Schimmel & Co., Report, 1928, p. 80.)

Gives reports, regarding the 1927 crop, from Bulgarian centers including Shipkoff & Co., and Vilezar Bargaroff.

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1927

Production of Attar of Rose in Bulgaria.

Journ. Am. Pharm. Assoc., 16, p. 534 (Yrbk. Am. Pharm. Assoc., 16, p. 471.)

Gives the yield of the 1926 rose crop.

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Bontcheff, E.

1928

1928 Otto of Rose Crop.

Perf. & Essent. Oil Rec., 19, p. 348 (Schimmel & Co.,  
Report, 1929, p. 79.)

Reports on the yield of otto of roses in  
Kazanlick, Bulgaria.

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Charpentier, C.

1928

1928 Bulgarian Otto Crop Reports.

Perf. & Essent. Oil Rec., 19, p. 264.

Reports on the quantity of otto of rose distilled  
by Velizar Bagaroff (Staro Novo Selo and Bania).

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(Editor.)

1928

Consular Report on Bulgarian Rose Oil.

Am. Perf. & Essent. Oil Rev., 23, p. 392.

Gives the yield of rose oil produced in Bulgaria.

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(Editor.)

1928

Cyprus Produces Otto of Rose.

Am. Perf. & Essent. Oil Rev., 23, p. 396.

Discusses the development of the otto of rose  
industry in Cyprus.

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Schimmel & Co.

1928

Rose Oil, Bulgarian.

Report, 1928, p. 80.

Give the yield of otto of rose distilled in  
Bulgaria in 1927, and the quantities exported from  
Bulgaria.

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Schimmel & Co. 1928

Rose Oil, Cyprian.

Report, 1928, p. 82.

Give the physical constants of the rose oil distilled in Cyprus.

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Schimmel & Co. 1928

Rose Oil, French.

Report, 1928, p. 82.

Give the exports and the imports of French rose oil.

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Schimmel & Co. 1928

Rose Oil, Greek.

Report, 1928, p. 82.

Give the physical constants of the rose oil distilled at the Village of Milee on Mt. Pilion near Volos, Greece.

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Schimmel & Co. 1928

Rose Oil, Italian.

Report, 1928, p. 82.

Give the quantity of rose oil produced in Italy since 1921.

---

Shipkoff & Co. Ltd. 1928

1928 Bulgarian Otto Crop Reports.

Perf. & Essent. Oil Rec., 19, p. 264.

Give a report of the rose crop and the yield of otto of roses in Bulgaria.

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Zander, H.

1928

Die Industrie der Ätherischen Oele.

Chem. Industrie, 51, p. 82 (Schimmel & Co., Report, 1928, p. 81.)

Gives a summary report of the Bulgarian rose oil industry.

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1928

(Bulgarian Rose Oil.)

La Bulgarie, p. (Chem & Drugg., 108, p. 764; Schimmel & Co., Report, 1929, p. 80.)

(Gives a brief history of the rose oil industry in Bulgaria.)

The original was not available.

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1928

(Bulgarian Rose Oil.)

Riechstoffind., 3, p. 60 (Yrbk. Am. Pharm. Assoc., 17, p. 976.)

(Gives data regarding rose crops from 1917 to 1923 inclusive.)

The original was not available.

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1928

(Bulgarian Rose Oil.)

Riechstoffind., 3, p. 7 (Yrbk. Am. Pharm. Assoc., 17, p. 976.)

(Gives information regarding the enforcement of the law of August 26, 1922 which was designed to protect the interests of both the producer and consumer of oil of rose.)

The original was not available.

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1928

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(Bulgarian Rose Oil.)

Riechstoffind., 3, p. 224 (Yrbk. Am. Pharm. Assoc., 17, p. 976.)

(Gives statistics regarding the size of the 1927 rose crop and the number and size of the distilling units in Bulgaria.)

The original was not available.

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1928

Roses In Hungary.

Perf. & Essent. Oil Rec., 19, p. 355. (Schimmel & Co., Report, 1929, p. 81.)

Discusses the establishing of the rose oil industry in Hungary.

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Bagaroff, V.

1929

1929 Bulgarian Rose Oil Crop.

Perf. & Essent. Oil Rec., 20, p. 229.

Reports on the crop of rose flowers and the approximate yield of otto in Bulgaria, for 1929.

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Bontcheff, E. & Co.

1929

The Bulgarian Rose Prospects.

Perf. & Essent. Oil Rec., 20., p. 104.

Reports on the estimated yield of the 1929 crop of roses.

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Chiris, A.

1929

(Rose Oil.)

Les Parfums de France, 7, p. 238. (Schimmel & Co., Report, 1930, p. 73.)

(Gives the physical constants of the oil distilled from the petals of the Brunner rose in France.)

The original was not available.

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(Editor.)

1929

Bulgarian Rose Oil in 1929.

Am. Perf. & Essent. Oil Rec., 24, p. 479.

Gives the quantity and quality of otto produced in Bulgaria and the market value.

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(Editor.)

1929

Imports Into the United States.

Am. Perf. & Essent. Oil Rev., 24, p. 464.

Gives the imports of Attar of rose into America.

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Schimmel & Co.

1929

Rose Oil, Bulgarian.

Report, 1928, p. 78.

Give the quantities of oil of rose produced in 1928 in the various districts of Bulgaria.

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Schimmel & Co.

1929

Rose Oil, French.

Report, 1929, p.80.

Give the total quantity of oil of rose distilled in France and the market value of it.

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Sedgwick, F.

1929

Bulgarian Otto of Rose.

Perf. & Essent. Oil Rec., 20, p. 317.

Discusses conditions affecting the market value of otto of rose in Bulgaria.

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1929

(Bulgarian Rose Oil.)

Pharm. Monatsh., 9, p. 118. (Schimmel & Co., Report, 1929, p. 80.)

(Discusses the law to be passed by the Bulgarian Parliament for the encouragement of rose cultivation.)

The original was not available.

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1929

Die Chemische Industrie im Jahre 1926.

Chem. Industrie, 52, p. 87. (Schimmel & Co., Report, 1929, p. 80.)

Gives the findings of the Bulgarian National Bank in regard to the factories producing rose oil in Bulgaria.

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Bontcheff, E. & Co.

1930

Otto of Roses.

Perf. & Essent. Oil Rec., 21, p. 487.

A table based on official statistics of the rose crop in Bulgaria for the years 1914, 1927, 1928, 1929, and 1930.

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(Editor.)

1930

Otto By Air.

Perf. & Essent. Oil Rec., 21, p. 385.

Illustrations showing a case of Bulgarian otto of rose on its dispatch from Sofia by air, and its arrival in London.

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(Editor.)

1930

The Situation of Otto of Roses.

Perf. & Essent. Oil Rec., 20, p. 252.

Gives data concerning the 1930 rose crop in Bulgaria.

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Ellmer, A.

1930

(Oil of Rose)

Riechstoffindustrie, 5, p. 193. (Schimmel & Co., Report, 1931, p. 64.)

(Discusses the cultivation of roses at high levels and the quality of oil they produce.)

The original was not available.

---

Gheorghieff, K.

1930

Rose Culture in Bulgaria.

Chem & Drugg., 113, p. 531. (Schimmel & Co., Report, 1931, p. 62.)

Discusses the methods to improve the rose culture in Bulgaria.

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Guenther, E. & Garnier, R.

1930

Bulgarian Otto of Rose.

Am. Perf. & Essent. Oil Rev., 25, p. 417. (Schimmel & Co., Report, 1931, p. 63.)

Discuss the cultivation of roses in Bulgaria.

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Günther, E. & Garnier, R.

1930

Bulgarian Otto of Rose.

Am. Perf. & Essent. Oil Rev., 25, p. 479. (Schimmel & Co., Report, 1931, p. 62.)

Discuss the distillation and extraction of roses in Bulgaria, with illustrations.

---

Günther, E. & Garnier, R.

1930

Bulgarian Otto of Rose.

Am. Perf. & Essent. Oil Rev., 25, p. 547. (Schimmel & Co., Report, 1931, p. 63.)

Discuss the ancient and modern methods of distillation of roses in Bulgaria, the adulteration of rose oil and include illustrations.

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Günther, E. & Garnier, R.

1930

Bulgarian Otto of Rose.

Am. Perf. & Essent. Oil Rev., 25, p. 621. (Schimmel & Co., Report, 1931, p. 64.)

Give the constants of oil from white roses and oil from red roses, which they distilled.

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Ising, C.

1930

Trade Notes.

Am. Perf. & Essent. Oil Rev., 25, p. 321. (Schimmel & Co., Report, 1931, p. 64.)

Discusses the cultivation and distillation of rose oil in Southern California.

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Karaivanoff, G.

1930

(Oil of Rose.)

Parfum. Moderne, 24, p. 97. (Schimmel & Co., Report, 1931, p. 61.)

(Gives a review of the status of the rose oil industry in Bulgaria in 1929.)

The original was not available.

---

Karaivanoff, G.

1930

Rose, Bulgarian.

Drug Markets, 26, p. 579. (Schimmel & Co., Report, 1931, p. 62.)

Discusses the cultivation of "Rosa damascena" in Bulgaria.)

---

Karaivanoff, G.

1930

Rose Bulgarian for 1930.

Drug Markets, 27, p. 465. (Schimmel & Co., Report, 1931, p. 60.)

Gives the quantity of roses harvested in Bulgaria, in 1930.

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Schimmel & Co.

1930

Rose Oil, Bulgarian.

Report, 1930, p. 70. (Ibid., 1931, p. 62.)

A report of the 1929 Bulgarian rose oil campaign.

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1930

(Bulgarian Rose Oil.)

Ind.-u. Handels-Ztg., no. 79, Apr. 3, 1930, p.\_\_\_\_.  
(Schimmel & Co., Report, 1930, p. 71.)

.(Gives the quantity of rose oil distilled during 1929 in Bulgaria.)

The original was not available.

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1930

Fifty Roses to a Drop of Perfume Oil.

Drugg. Circ., 74, March, p. 44.

Discusses the production and the adulteration of oil of rose.

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1930

(Otto of Rose In Cyprus.)

Cyprus Agric. Journ., Jan. 1930, p.\_\_\_\_.(Perf. & Essent. Oil Rec., 21, p. 256; Schimmel & Co., Report, 1931, p. 64.)

(Discusses the distillation of otto of rose in Cyprus and compares this product with the Bulgarian otto of rose.)

The original was not available.

---

Bagaroff, V.

1931

Bulgarian Otto of Rose.

Perf. & Essent. Oil Rec., 22, p. 105.

Discusses the climatic conditions in the Vallee des Roses in Bulgaria.

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Keeler, E.P.

1931

Otto of Rose Outstanding Essential Oil Produced in Turkey.

Am. Perf. & Essent. Oil Rev., 26, p. 302.

Discusses the decline of the otto of rose industry in Bulgaria.

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Schimmel & Co.

1931

Rose Oil, Bulgarian.

Report, 1931, p. 59.

Gives the production of rose oil in 1930 and the exports of it from Bulgaria.

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1931

Production of Bulgarian Rose Oil.

Perf. & Essent. Oil Rec., 22, p. 112.

Discusses the improvements made in the distillation of otto of rose since 1905 in Bulgaria.

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Bagaroff, V.

1932

Otto of Rose.

Perf. & Essent. Oil Rev., 23, p. 163.

A description of the rose flowers in Bulgaria.

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DeBelsunc, \_\_\_\_.

1932

Morocco Otto.

Perf. & Essent. Oil Rec., 23, p. 348.

Gives the properties and the yield of the otto distilled from the Marrakesh rose in Morocco.

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Ellmer, A.

1932

(Bulgarian Rose Oil.)

Chem. Apparatur, 19, p. 71. (Schimmel & Co., Report, 1933, p. 71.)

(An illustrated article on the technology of Bulgarian rose oil production.)

The original was not available.

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Parry, E.J.

1932

Otto of Rose.

Perf. & Essent. Oil Rec., 23, p. 345. (Ibid., 23, p. 375.)

Discusses the use of citronellol as an adulterant in oil of rose.

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Poucher, W.A.

1932

Pure Rose Otto.

Perf. & Essent. Oil Rec., 23, p. 375.

Discusses the citronellol content of pure otto of rose, the distillation of which he controlled.

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1932

Bulgarian Rose Crop.

Chem. & Drugg., 116, p. 436. (Schimmel & Co., Report, 1933, p. 50.)

Give methods devised to combat the diseases affecting the roses in Bulgaria.

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1932

Otto of Rose, Bulgarian.

Perf. & Essent. Oil Rec., 23, p. 202.

States that there will be no change in price of otto in Bulgaria, for the present.

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(Editor.)

1933

Otto of Rose.

Perf. & Essent. Oil Rec., 24, pp. 19 & 55.

Mentions that E. Bontcheff & Co. have issued a table showing data as to rose flowers in Bulgaria for each of the years 1927-32.

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Garnier, R.

1933

The Otto of Rose Controversy.

Perf. & Essent. Oil Rec., 24, p. 370.

Discusses the importance of the citronellol content in determining the purity of the otto of rose.

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Garnier, R. & Sabetay, S.

1933

Les Constantes analytiques de l'essence de  
rose bulgare.

Compt. rend., 197, p. 1748. (Perf. & Essent. Oil Rec.,  
25, p. 6; Ibid., 25, p. 213; Ibid., 25, p. 347; Ibid.,  
26, p. 259; Schimmel & Co., Report, 1934, p. 61.)

Discusses the analytical characters, ethyl  
alcohol and citronellol content, of otto of rose.

---

Glichitch, L. & Naves, Y.

1933

(Oil of Rose.)

Les Parfums de France, 11, p. 154. (Schimmel & Co.,  
Report, 1934, p. 60; Ibid., 1935,;. 67.)

(Discuss the high citronellol content of  
Bulgarian Rose Oils since 1924.)

The original was not available.

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Parry, E.J. & Seager, J.H.

1933

Bulgarian Otto of Rose.

Perf. & Essent. Oil Rec., 24, p. 149. (Ibid., 24, p. 295;  
Ibid., 25, p. 213; Schimmel & Co., Report, 1934, p. 60.)

Give results obtained after examining various  
samples of Bulgarian otto of rose with particular  
reference to theri citronellol content.

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"Purum."

1933

Otto of Rose.

Perf. & Essent. Oil Rec., 24, p. 295. (Ibid., 24, p. 370.)

Gives a possible explanation why the physical  
characters of 1932 Bulgarian otto was very different from  
those of otto distilled during previous years in Bulgaria.

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Schimmel & Co.

1933

Rose Oil, Anatolian.

Report, 1933, p. 47.

Give the rose oil exports from Turkey from 1923 to 1930 and the value of the oil in Turkish pounds.

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Schimmel & Co.

1933

Rose Oil, Bulgarian.

Report, 1933, p. 49.

Give data on the production of rose oil in Bulgaria in 1932.

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1933

Bulgarian Otto of Rose.

Perf. & Essent. Oil Rec., 24, p. 350.

Mentions that "the General Court of the Bulgarian Agricultural Bank decided to send Messers. Parry and Seagar a set of samples representing the 1933 crop of Bulgarian otto of rose."

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1933

(Rose Oil.)

Brief der Aussenhandelsstelle für Sachsen, 11, p. 17, 1933.  
(Schimmel & Co., Report, 1934, p. 60.)

(Announces that the state farms for volatile oils in Crimea have begun the cultivation of Kazanlik roses.)

The original was not available.

---

Garnier, R. & Sabetay, S.

1934

Exposé Critique des Methodes D'Analyse  
de L'Essence de Rose Bulgare.

Ann. Falsif., 27, p. 264. (Perf. & Essent. Oil Rec., 25, p. 347; Ibid., 26, p. 259; Schimmel & Co., Report, 1935, p. 67.)

A method suitable for the analysis of otto of rose as to its citronellol content.

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Guenther, E.

1934

Natural Flower Oils.

Am. Perf. & Essent. Oil Rev., 29, p. 451. (Schimmel & Co., Report, 1935, p. 68.)

A report of the rose oil industry in the South of France.

---

Karaivanoff, G.

1934

(Rose Oil.)

Parfum. Moderne, 28, p. 16. (Schimmel & Co., Report, 1935, p. 66.)

(Discusses the 1933 distillation of oil of rose in Bulgaria.)

The original was not available.

---

Parry, E.J. & Seager, J.H.

1934

Otto of Rose.

Perf. & Essent. Oil Rec., 25, p. 213. (Schimmel & Co., Report, 1935, p. 67.)

Gives the physical and chemical constants of samples of the distillates of 1932 and 1933 obtained from various districts in Bulgaria.

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Schimmel & Co.

1934

Rose Oil, Bulgarian.

Report, 1934, p. 58.

Give the production of Bulgarian rose oil and the exports of the oil from Bulgaria since 1929 and give the law of August 26, 1933 for the development of the rose industry in Bulgaria.

---

1934

(Bulgarian Rose Oil.)

Deutsche Parf.-Ztg., 20, p. 361. (Schimmel & Co., Report, 1935, p. 66.)

(Discusses the export conditions of Bulgarian rose oil.)

The original was not available.

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1934

(Bulgarian Rose Oil.)

Industrie - and Handelzeitung, No. 46, Feb. 23, 1934. (Schimmel & Co., Report, 1934, p. 59.)

(Gives the production and export of rose oil during the last 5 years in Bulgaria, according to the Bulgarian Bank of Agriculture.)

The original was not available.

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1934

Otto of Roses Regulations.

Perf. & Essent. Oil Rec., 25, p. 89.

Mentions the step taken for an alteration of regulations of trade in roses and rose oil in Bulgaria.

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1934

(Rose Oil, Anatolian.)

Eildienst für Aussenhandel und Auslandswirtschaft, 15, 12, 1934, p. 688. (Schimmel & Co., Report, 1935, p. 63.)

(Describes the new rose oil distillery at Isparta, Turkey.)

The original was not available.

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1934

Rose Oil Output in 1934.

Perf. & Essent. Oil Rec., 25, p. 292.

Compares the 1934 yield of oil of rose in Bulgaria with the 1933 yield.

---

Bagaroff, V.

1935

Bulgarian Otto of Rose.

Perf. & Essent. Oil Rec., 26, p. 309. (Ibid., 26, p. 336.)

Discusses the new control system of rose culture and manufacture of otto in Bulgaria.

---

Bontcheff, E.

1935

(Otto of Rose.)

Kambana, \_\_\_\_, p. \_\_\_\_. (Perf. & Essent. Oil Rec., 26, p. 103.)

(Gives the text of the law, passed by the Council Ministers, for the regulation of rose culture in Bulgaria.)

The original was not available.

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(Editor.)

1935

Otto of Rose.

Perf. & Essent. Oil Rec., 26, p. 336.

Gives the provisions of the "new laws promulgated by the Bulgarian Government for the regulation of the rose otto industry."

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Garnier, R. & Palfray, L.

1935

The Determination of Ethyl and Methyl Alcohols in Natural Essential Oils.

Perf. & Essent. Oil Rec., 26, p. 259.

Discusses the different methods used in determining the alcoholic content of oil of rose and factors which influence the amount of ethyl alcohol present in the oil of rose.

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Garnier, R. & Sabetay, S.

1935

Contribution a la Connaissance de l'Essence de Rose Bulgare.

Ann. Falsif., 28, p. 585. (Perf. & Essent. Oil Rec., 27, p. 279.)

Give the "results of their examination of oils distilled by themselves on a semi-industrial scale during 1934, which confirm their findings of previous years as regards the presence of ethyl alcohol, the high rhodinol (citronellol) content, and the presence of azulogenic sesquiterpenes."

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Schimmel & Co.

1935

Rose Oil, Anatolian.

Report, 1935, p. 63.

Discuss the development of the rose oil industry in Turkey after the World War.

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Schimmel & Co.

1935

Rose Oil, Bulgarian.

Report, 1935, p. 64.

Give the production and exports of rose oil from Bulgaria in 1934.

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Schimmel & Co.

1935

Rose Oil, French.

Report, 1935, p. 68.

Discuss the cultivation of roses in France and the distillation of rose oil and rose water.

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1935

Distilling Roses in Bulgaria.

Perf. & Essent. Oil Rec., 26, p. 127.

An illustration of the distillation of roses in Bulgaria.

---

Parry, E.J.

1936

Otto of Rose.

Perf. & Essent. Oil Rec., 27, p. 278.

Discusses the use of citronellol as an adulterant in otto of rose.

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LIST OF BOOKS CONSULTED

- Coxe, J.R., (the) Am(eric)an Dispens(atory), 1 ed., 1806;  
4 ed., 1818; 6 ed., 1825; 7 ed., 1827; 8 ed.,  
1830; 9 ed., 1831.
- Flückiger, F.A. & Hanbury, D., Pharmacographia, 1 ed.,  
1874; 2 ed., 1879.
- Gildemeister, E. & Hoffmann, F., Authorized translation  
by E. Kremers, The Volatile Oils, v.1, 2 ed.,  
1913; v. 2, 2 ed., 1916; v.3, 2 ed., 1922.
- King, J. (The) Am(eric)an Dispens(atory), 6 ed., 1864;  
8 ed., 1872; 10 ed., 1875; 15 ed., 1881;  
16 ed., 1889; 18 ed., 3 revis., v.2, 1900.
- King, J. & Newton, R., (The) Eclectic Dispens(atory),  
1 ed., 1852.
- Stille, A. & Maisch, J.M., (The) Nat(iona)l Dispens(atory),  
1 ed., 1879; 2 ed., 1879; 3 ed., 1884; 5 ed., 1894.
- Thacher, J., (The) Am(eric)an New Dispens(atory), 1 ed.,  
1810; 2 ed., 1813; 4 ed., 1821.
- Tschirch, A., Handbuch d(er) Pharmakogn(osie), 1 ed., v.2,  
1912.
- Wood, G.B. & Bache, F., (The) Dispens(atory) (of the)  
U(nited) S(tates of A(merica)), 2 ed., 1834;  
3 ed., 1836; 4 ed., 1839; 5 ed., 1843; 6 ed.,  
1845; 7 ed., 1847; 8 ed., 1849; 9 ed., 1851;  
10 ed., 1854; 11 ed., 1858; 12 ed., 1865;  
13 ed., 1870; 14 ed., 1879; 15 ed., 1883;  
16 ed., 1892; 17 ed., 1894; 18 ed., 1899;  
19 ed., 1907; 20 ed., 1918; 21 ed., 1926.

LIST OF JOURNALS CONSULTED

- Am(eric)an Drugg(ist), v. 13-21; 1884-1892.
- Am(eric)an Drugg(ist and Pharm(aceutic)al Record), v. 22-72; 1893-1924.
- Am(eric)an Drugg(ist), v. 73-90; 1925-1936.
- Am(eric)an Journ(al of) Pharm(acy), v. 1-108; 1829-1936.
- Am(eric)an Perf(umer and) Essent(ial) Oil Rev(iew), v. 3, 1908; v. 9 - 32; 1914-1935.
- Drugg(ist) Circ(ular), v. 1-9; 1857-1865.
- Drugg(ist) Circ(ular and Chemical Gazette), v. 10-80; 1866-1936.
- Journ(al of the) Am(eric)an Pharm(aceutic)al Assoc(iation), v. 1-25; 1851-1936.
- Perf(umery) and Essent(ial) Oil Rec(ord), v. 1-27; 1910-1936.
- Pharm(aceutic)al Journ(al), v. 1-135; 1841-1935.
- Proc(eedings of the) Am(eric)an Pharm(aceutic)al Assoc(iation), v. 1-59; 1851-1911.
- Schimmel & Co., Berichte, 1886-1891.
- Schimmel & Co., Semi-Ann(ual) Report, 1892-1918.
- Schimmel & Co., Ann(ual) Report, 1919-1934.
- Y(ea)rb(oo)k (of the) Am(eric)an Pharm(aceutic)al Assoc(iation), v. 1-24; 1912-1935.

UNITED STATES PHARMACOPOEIA ( O-XI )

1820 - 1930

and

NATIONAL FORMULARY ( I - VI )

1886 - 1936

HISTORY

of

OIL OF ROSE

U.S.P.,-1840, P.p. 29.

Oleum Rosae. Oil of Roses

The volatile oil of *Rosa centifolia*.

U.S.P.,-1850, P.p. 33.

Oleum Rosae. Oil of Roses.

The volatile oil of the petals of *Rosa centifolia*.

U.S.P.,-1860, P.p. 40.

Oleum Rosae. Oil of Rose.

The volatile oil obtained from the petals of *Rosa centifolia*.

U.S.P.,-1870, P.p. 40.

Oleum Rosae. Oil of Rose.

The volatile oil obtained from the petals of *Rosa centifolia*.

U.S.P.,-1880, p. 241.

Oleum Rosae.

Oil of Rose.

A volatile oil distilled from the fresh flowers of *Rosa damascena* Miller / (Nat. Ord., Rosaceae, Roseae).

A pale yellowish, transparent liquid, having a strong odor of rose, a sweetish, / rather mild taste, and a slightly acid reaction. Sp. gr. about 0.860. It is but slightly / soluble in alcohol. When slowly cooled to near 10°C. (50°F.), the Oil becomes a / transparent solid, interspersed with numerous slender, shining, iridescent, scale- / like crystals. When rapidly cooled to 12.5°C. (54.5°F.), it congeals to a solid / mass of light, feathery, shining scales or plates.

Oleum Rosae.

Oil of Rose.

A volatile oil distilled from the fresh flowers of *Rosa damascena* / Muellar (nat. ord. Rosaceae).

It should be kept in well - stoppered vials, in a cool place, protected / from light. When dispensed, it should be completely liquefied by / warming, if necessary, and well mixed by agitation.

A pale yellowish, transparent liquid, having the strong, fragrant odor of / rose, and a mild, slightly sweetish taste.

Specific gravity : 0.865 to 0.880 at 20° C. (68° F.).

It is but slightly soluble in alcohol, and neutral to litmus paper moistened / with alcohol.

The congealing and melting points of the Oil are subject to some variation, / depending upon the amount of stearopten, but, when slowly cooled to a tem - / perature, usually, between 16° and 21° C. (60.8° and 69.8° F.), it becomes a / transparent solid, interspersed with numerous slender, shining, iridescent, / scale - like crystals. Upon the application of the heat of the hand, the crystals / should float in the upper portion of the liquefied Oil.

If to 5 drops of the Oil, contained in a test - tube, 5 drops of concentrated / sulphuric acid are added, a reddish - brown, thick mixture will be produced, but / no white fumes or tarry odor should be developed, and the fragrant odor of / the Oil should not be destroyed. If this mixture be then shaken with 2 Cc./ of alcohol, the

resulting liquid may be turbid, but should be nearly colorless, / and should not at once assume a red or reddish-brown color (absence of oil of / ginger - grass or Turkish oil of geranium, from *Andropogon Schoenanthus* Linne / (nat. ord. Gramineae), and of oil of rose geranium, from *Pelargonium Radula* / (Cavanilles) Aiton, *Pelargonium capitatum* (Linne) Aiton, and *Pelargonium / odoratissimum* (Linne) Aiton; nat. ord. Geraniaceae).

U.S.P.,-1900, p. 322.

Oleum Rosae

Oil of Rose

A volatile oil distilled from the fresh flowers of *Rosa damascena* / Mueller ( Fam. Rosaceae), having, when assayed by the process given / below a saponification value of not less than 10 nor more than 17./ It should be kept in well - stoppered, amber - colored vials, in a cool / place, protected from light. When dispensed, it should be completely / liquefied by warming, if necessary, and well mixed by agitation.

A pale yellowish, transparent liquid, having the strong, fragrant odor of rose, / and a mild, slightly sweetish taste.

Specific gravity : 0.855 to 0.865 at 25° C. (77° F.).

The addition of a 70 percent. alcohol precipitates the paraffin hydrocarbons / of the Oil, but forms a clear solution with its other constituents, the solution/ being slightly acid to litmus T.S.

The congealing point, when determined according to

the following method, / should be between  $18^{\circ}$  and  $22^{\circ}$  C. ( $64.4^{\circ}$  and  $71.6^{\circ}$  F.).

Introduce about 10 Cc. of Oil into a test - tube of about 15 Mm. diameter; in - / sert a thermometer in such a manner that it touches neither the bottom nor / the sides of the tube. Raise the temperature of the Oil in the tube from  $4^{\circ}$  to /  $5^{\circ}$  above the saturation point by grasping it in the hand, and shake the tube / gently. Allow the Oil to cool, and when the first crystals appear, note the / temperature. This is regarded as the congealing point; a second test should / be made for confirmation.

#### Assay

Place in a weighing - bottle about 2 Cc. of the Oil of Rose, and weigh it / accurately. Transfer it, with the aid of a little alcohol, to a 100 Cc. flask, and / add 20 Cc. of half - normal alcoholic potassium hydroxide V.S. Connect the / flask with a reflux condenser, and boil the mixture during thirty minutes on a / water - bath. When cool, add 50 Cc. of distilled water and a few drops of phe - / nolphtalein T.S., and titrate with half - normal sulphuric acid V.S. Subtract / the number of Cc. of half - normal sulphuric acid V.S. required, from 20 (the 20 / Cc. of half - normal alcoholic potassium hydroxide V.S. taken ), multiply the / difference by 27.87, and divide by the weight of the Oil to obtain the saponi - / fication value.

U.S.P.,-1930, p. 266.

Oleum Rosae

Oil of Rose

O. Rosa. - Otto of Rose

Oil of Rose is the volatile oil distilled with steam from the fresh / flowers of *Rosa gallica* Linne and *Rosa damascena* Miller, and varieties / of these species ( Fam. Rosaceae).

Description and Physical properties - A colorless or yellow liquid having the / characteristic odor and taste of rose.

Tests for identity and purity - Oil of Rose at 25°C. is a viscous liquid. Upon / gradual cooling it changes to a translucent crystalline mass, which may be / easily liquefied by warming.

Specific gravity : from 0.848 to 0.863, at 30° C. compared with water at / 15°C.

Optical rotation : it varies from -1° to -4° in a 100 mm. tube, at 25° C., / page 459.

Refractive index : from 1.457 to 1.463, at 30° C., page 454.

One cc. of Oil of Rose mixes with 1 cc. of chloroform without turbidity. / Upon adding 20 cc. of 90 per cent alcohol, by volume, to this solution, the / resulting liquid is neutral or faintly acid to moistened litmus paper and / deposits a crystalline residue upon standing.

Storage - Preserve Oil of Rose in well - stoppered, completely filled containers in / a cool place and protected from light.

SUMMARY OF U.S.P. & N.F. DATA OF OIL OF ROSE

Official in:

U.S.P., 1840, '50, '60, '70, '80, '90, 1900  
'30.

Official Latin Title:

Oleum Rosae, U.S.P., 1840, '50, '60, '70,  
'80, '90, 1900, '30.

Official English Title:

Oil of Roses, U.S.P., 1840, '50.  
Oil of Rose, U.S.P., 1860, '70, '80, '90,  
1900, '30.

Official Abbreviation:

Ol. Rosa., U.S.P., 1930.

Official Synonym:

Otto of Rose, U.S.P., 1930.

Official Scientific Names:

Rosa centifolia, U.S.P., 1840, '50, '60, '70.  
Rosa damascena, U.S.P., 1880, '90, 1900, '30.  
Rosa gallica, U.S.P., 1930

Official Family:

Rosaceae, U.S.P., 1880, '90, 1900, '30.

Parts Used:

Petals, U.S.P., 1850, '60, '70.  
Fresh flowers, U.S.P., 1880, '90, 1900, '30.

Description:

U.S.P., 1840, '50, '60, '70, '80, '90, 1900,  
'30.

Official Preparations:

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Average Dose:

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Properties:-

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Medicinal Operations:

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APPROVED BY W. R. Lichtmann

Prof. of Pharmacognosy