

BIBLIOGRAPHY  
OF  
OIL OF LAVENDER  
BY  
GERALDINE BERTHA NEUMAN

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SCHOOL OF PHARMACY

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

UNIVERSITY OF WISCONSIN

1937

Hildegard, Abbess

(12 C.)

(Lavendula.)

De libris Physicis, 1, p.- (Abbess Hildegard, Opera Omnia, p. 1145 by Accurante J. P. Migne in 1855; Flückiger and Hanbury, Pharmacographia, 2 ed., p. 476; Tschirch, Handbuch d. Pharmakogn., 1 ed., v. 1, p. 668; Ibid., v. 2, p. 831.)

(Mentions the strong odors and many virtues of the lavender plant in the chapter entitled De Lavendula.)

The original was not available.

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(12 C.)

(Flos Medicinae.)

Collectio Salernitana de Renzi, 1, pp. 417 & 516 (Flückiger and Hanbury, Pharmacographia, 2 ed., p. 476; Tschirch, Handbuch d. Pharmakogn., 1 ed., v. 2, p. 832.)

(In the poem of the school of Salerno entitled Flos Medicinae the following lines occur:

"Salvia, castoreum, lavendula, primula veris,  
Nasturtium, athanas haec sanant paralytica membra.")

The original was not available.

Rhirvallon, \_\_\_ and Sons.

(13 C.)

(Oleum Lavandulae.)

Meddygon Myddfai, 1861, p. 287 (Flückiger and Hanbury, Pharmacographia, 2 ed., p. 476; Tschirch, Handbuch d. Pharmakogn., 1 ed., v. 2, p. 832.)

(Mention lavender "Llafant" or "Llafanllys" as one of the remedies used in the British Isles during this period.)

The original was not available.

Walton, \_\_\_\_.

(Ca.1680)

("Description of an inn.")

Macaulay, Hist. of England, 1, p.--(Flückiger and Hanbury,  
Pharmacographia, 2 ed., p. 476; Tschirch, Handbuch d.  
Pharmakogn., 2 ed., v. 2, p. 832.)

(In the description of an inn, mentions the fact  
that the walls were stuck round with ballads, where the sheets  
smelt of lavender.)

The original was not available.

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Wheatley, F.

1792

Lavender.

Cries of London, --, p. 1.

"Won't you buy my sweet smelling Lavender?  
Two branches for a penny.  
Won't you buy my fresh gathered Lavender?  
Two branches for a penny."

"Lavender, sweet blooming Lavender,  
Six branches for a penny to-day.  
Lavender, sweet blooming lavender,  
Ladies, buy it while you may."

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Wheatley, F.

1792

Lavender.

Cries of London, --, p. 1.

"Won't you buy my Blue Mitcham Lavender?  
Sixteen blue branches for a penny.  
You buy it once, you'll buy it twice  
It makes your rooms smell very nice.  
Sixteen blue branches for a penny."

Come young ladies, don't delay,  
My lavender is fresh today.  
Sixteen blue branches for a penny,  
It scents your pocket handkerchers,  
And makes the moths keep far away.  
Sixteen blue branches for a penny."  
Plus the picture of the "Primrose Seller."

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Wheatley, F.

1792

Lavender.

Cries of London, --, p. 2.

As adaptations of Wheatley's picture "The Primrose Seller" many songs and cries for lavender have arisen. The lavender cries were the last of the musical cries to remain vocal.

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Coxe, J. R.

1806

Oleum Lavandulae.

Am. Dispens., 1 ed., p. 477; Ibid., 4 ed., p. 395; Ibid., 6 ed., p. 425; Ibid., 7 ed., p. 440; Ibid., 8 ed., p. 457; Ibid., 9 ed., p. 500.

Gives directions for the preparation of oil of lavender from the flowers or herbs in flowers.

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Thacher, J.

1810

Oleum Lavandulae Spicae.

Am. New Dispens., 1 ed., p. 316.

Gives directions for the preparation of the volatile oil of lavender.

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Thacher, J.

1813

Oleum Lavandulae Spicae.

Am. New Dispens., 2 ed., p. 477; Ibid., 4 ed., p. 521.

Gives the official English title and the reason for the use of oil of lavender.

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de Saussure, T.

1817

Recherches sur la composition et les propriétés du napthe d'Amiano.

Bibliothèque universelle, 4, p. 116 (Ann. de. Chim. et d. Phys., s.2, v. 4, p. 318; Gildemeister and Hoffmann, Die Aetherischen Oele, 1 ed., p.788; Ibid., 2 ed., v. 3, p.437; Thomson, Ann. Phil., 10, p. 118; Gilbert's, Annalen der Physik, 60, p. 224.)

States that oil of lavender, rectified, absorbs 210 times its volume of muriatic acid without being saturated, and at the same time changes from a pale yellow to a reddish black.

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de Saussure, T.

1820

Observations sur la combinaison de l'essence de citron avec l'acide muriatique, et sur quelques substances huileuses.

Essence of Lavande.

Ann. de. Chim. et de Phys., s. 2, v. 49, p. 225 (Gildemeister and Hoffmann, Die Aetherischen Oele, 1 ed., p.788; Ibid., 2 ed., v. 3, p. 437.)

Gives various properties of oil of lavender: specific gravity at different temperatures, and absorption of various gases.

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Bigelow, J. 1822

Oleum Lavandulae.

Treatise on the Materia Medica, 1 ed., p. 268.

Gives the U.S.P. official English title, properties, and dose of oil of lavender.

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de Gingins-Lassaraz, F. 1826

(Oleum Lavandulae.)

Hist. des Lavandes, p. -- (Flückiger and Hanbury, Pharmacographia, 2 ed., p. 476.)

(Mentions that no allusion has been found in the writings of classical authors which unquestionably refers to *Lavandula vera* or *L. spica*, whereas *L. stoechas* was familiar to the ancients.)

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Recluz, C. 1830

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

Am. Journ. Pharm., 1, p. 133.

Data on Oil of Lavender is included in the above table.

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Guibourt, N. J. B. G. 1832

Sur las pesanteur spécifique des huiles volatiles.

Journ. de Chim. Med., 8, p. 345 (Am. Journ. Pharm., 4, p. 146.)

Gives figures on the specific gravity of several oils of lavender by different instruments worked on by Chardin and Brisson.

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de Saussure, T.

1832

De l'action des Huiles sur le Gaz oxygene a  
la temperature atmosferique.

Ann. de Chim. et de Phys., s. 2, v. 13, p. 273 (Gildemeister  
and Hoffmann, Die Aetherischen Oele, 1 ed., p. 788; Ibid.,  
2 ed., v. 3, p. 437.)

"In Huile Volatile de lavande (Lavandula spica L.)"  
gives his results of various experiments with oil of lavender  
and oxygen at different times during the year.

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Guibourt, N.J.B.G.

1834

Specific Gravity of Volatile Oils.

Am. Journ. Pharm., 5, p. 60.

A list of corrected specific gravity, as  
previously published, of several lavender oils.

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Wood, G. B. and Bache, F.

1834

Oleum Lavandulae.

Dispen., U.S.A., 2 ed., p. 941; Ibid., 3 ed., p. 920; Ibid.,  
4 ed., p. 979; Ibid., 5 ed., p. 1053; Ibid., 6 ed., p. 1053;  
Ibid., 7 ed., p. 1053; Ibid., 8 ed., p. 1053; Ibid., 9 ed.,  
p. 1105; Ibid., 10 ed., p. 1103; Ibid., 11 ed., p. 1165;  
Ibid., \*12 ed., p. 1253; Ibid., 13.ed., p. 1309; Ibid., 14 ed.  
p. 1350.

Gives the pharmacopeas in which official, the  
official English title, properties, uses, dose, and medical  
action, and official preparations of oil of lavender and the  
properties and uses of oil of spike.

\*Gives the formula for Cognon Water beginning  
with this edition, through the 14 edition.

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Martins, \_\_\_\_.

1838

(Oleum Lavandulae.)

Ann. des Sc. Nat., 10, pp. 145 & 149 (Flückiger and Hanbury, Pharmacographia, 2 ed., p. 476.)

(Gives the altitude of lavandula vera on Mont Ventorx near Avignon.)

The original was not available.

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Proctor, W., Jr.

1839

Observations on Some of the Camphoriferous Essential Oils, and on the Resins Evolved from Some of the Volatile Oils, by Their Reaction with Sulfuric Acid.

Am. Journ. Pharm., 10, p. 23.

Discusses the resins produced by the action of sulfuric acid on lavender oil.

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Bell, J.

1848

Oil of Lavender.

Pharm. Journ., 8, p. 276 (Am. Journ. Pharm., 21, p. 284; Flückiger and Hanbury, Pharmacographia, 2 ed., p. 477.)

Gives a detailed report of the advantages and disadvantages of the distillation of oil of lavender with and without the stalk present.

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Bell, J.

1851

Mitcham: Its Physic Gardeners and Medicinal Plants.

Pharm. Journ., 10, p.119 (Am. Journ. Pharm., 23, p. 30.)

Discusses the species of lavender cultivated at Mitcham, cultivation, diseases, amount of oil obtained, and the methods of distillation of oil of lavender.

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King, J. and Newton, R.S.

1852

Oleum Lavandulae.

Eclectic Dispens. of U.S.A., 1 ed., p. 519.

Gives the official English title, the uses, and the dose of oil of lavender.

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Plummer, J. L.

1853

Decolorizing Property of the Essential Oils.

Am. Journ. Pharm., 25, pp. 399, 510 & 511.

Discusses the decolorizing power of oil of lavender.

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Plesse, S.

1854

Varieties on Perfumery.

A m. Journ. Pharm., 26, p. 372.

Gives various uses for Lavender oil, methods of preparing essence of lavender, and recipes for preparing Smyth's Lavender, essence of Lavender, Lavender Water, and Common Lavender Water.

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(Über die Nachweisung der Verfälschung  
theurer atherischer Oele mit wohlfeilern  
besonders mit Terplutinol.)

Zeitschr. für Pharm., 8, pp. 82, 97, & 113; Buchner, Neues  
Repertorium für Pharm., 5, p. 24 (Archiv. der Pharm., 139,  
p. 57; Chem. Gaz., 15, p.--; Am. Journ. Pharm., 29, p. 325.)

(Tests for the adulteration of oil of  
lavender with turpentine oil by the use of nitro-prusside  
of Copper.)

The original was not available.

Über eine Beobachtung der Entfärbung des  
schwefelsauren Indigs mittelst Terpentinsols.

Archiv. d. Pharm., 149, p. 290 (Am. Journ. Pharm., 32, p. 46.)

Reports the decolorization of a solution of  
Indigo in sulfuric acid by lavender oil.

Sur la composition de quelques essences.

Ann. de Chim. et de Phys., s. 3, v. 57, p. 414 (Journ. de  
Pharm., 37, p. 290; Annal der Chem., 114, p. 197; Wood and Bache,  
Dispens., U.S.A., 12 ed., p. 1253; Ibid., 13 ed., p. 1309;  
Ibid., 14 ed., p. 1350; Ibid., 15 ed., p. 1014; Ibid., 16 ed.,  
p. 1054.)

States that oil of lavender is chiefly made up of  
an oil isomeric with pure oil of turpentine, but also contains  
acetic acid, perhaps in the form of amylic ether.

Buignet, H.

1861

Pouvoir Rotatoire.

Journ. de Pharm. et de Chim., 40, p. 252 (Am. Journ. Pharm., 34, p.140.)

Records the results of subjecting various bodies, including the oil of lavender, to the circular polarizing apparatus to ascertain their relationship to the polarized rays.

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1861

Lavender Water.

Drugg. Circ., 5, p. 234.

Gives a formula for lavender water, which contains oil of lavender.

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Tomlinson, C.

1862

On the Cohesion Figures of Liquids.

Phil. Mag., 23, p. 186 (Pharm. Journ., 23, p. 495; Am. Journ. Pharm., 36, p. 343.)

Gives particulars about variations in the figures arising from changes in the adhesion surface of various oils, including the oil of lavender.

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Chautard, J.

1863

Nouvelles études sur le camphre gauche de matricaire et sur les huiles essentielles, au point de vue de production du camphre.

Essences diverses.

Compt. rendu, 56, p. 698; Journ. de Pharm., 43, p.30; Wood and Bache, Dispens., U.S.A., 12 ed., p. 1253; Ibid., 13 ed., p. 1309; Ibid., 14 ed., p. 1350; Ibid., 15 ed., p.1014; Annal der Chem., 127, p. 121.)

States that lavender is one of the 5 oils which deposited crystals; that the crystals from oil of lavender were found to have same points of fusion and volatilization as Camphor of Japan; but that it does not affect polarized light.

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Quin, C. W.

1863

The Chemical Manufacturers of Great Britain.

Chem. and Drugg., 3, p.334 (Ibid., 82, p. 399; Gildemeister and Hoffmann, Die Aetherischen Oele, 2 ed., v. 3, p.399.)

Discusses the best types of soil for Lavender, the various species of lavender, and the distillation and uses of oil of lavender.

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Farina, \_\_\_\_ .

1864

(Genuine Cologne Water.)

Zeitschrift des Nordeutschen Apotheker Vereins, --, p. -- (Am. Journ. Pharm., 36, p. 376; Wood and Bache, Dispens., U.S.A., 12 ed., p. 1253; Ibid., 13 ed., p. 1309; Ibid., 14 ed., p. 1350.)

(Gives a celebrated formula for genuine Cologne Water, which contains Oil of Lavender.)

The original was not available.

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King, J.

1864.

Oleum Lavandulae.

Am. Dispens., 6 ed., p. 1206; Ibid., 8 ed., p. 1098; Ibid., 10 ed., p. 1098; Ibid., 15 ed., p. 1098; Ibid., 16 ed., p. 1098.

Gives the official-English title, history including characteristics and properties, adulterations, properties and uses, official preparations of oil of lavender and a little information in regard to Lavandulae Spica.

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Tomlinson, C.

1864

Further Remarks on the Cohesion Figures  
of Liquids.

Pharm. Journ., 23, p. 495 (Am. Journ. Pharm., 36, p. 343.)

Gives the characteristics of the cohesion  
figures of 8 different oils, including oil of lavender.

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Warrer, T. T. P. B.

1864

On the Cultivation of Medicinal Plants  
at Mitcham.

Pharm. Journ., 24, p. 257 (Wood and Bache, Dispens., U.S.A.,  
12 ed., p. 1253; Ibid., 13 ed., p. 1309; Ibid., 14 ed.,  
p. 1350; Ibid., 15 ed., p. 1014; Ibid., 16 ed., p. 1054;  
Ibid., 17 ed., p. 940; Ibid., 18 ed., p. 940; Ibid., 19 ed.,  
p. 850; Ibid., 20 ed., p. 767; Fluckiger and Hanbury,  
Pharmacographia, 2 ed., p. 478.)

States that most of the Lavender is distilled  
for its oil, the yield of oil per acre varies with the  
season and soil and gives the average yield of oil from  
Lavender per acre. The plants are renewed every 3 years,  
although the second year's growth is the best.

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Piesse, S.

1868

The Lavender and Mint Harvest.

Chem. and Drugg., 9, p. 487 (Drugg. Circ., 12, p. 289.)

Summarizes the crops and the harvest of  
Lavender for that season.

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1868

Lavender Water.

Drugg. Circ., 12, p. 147.

Gives a formula for lavender water, containing  
oil of lavender.

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1870

The Lavender Farms in England.

Drugg. Circ., 14, p. 34.

Mentions the beauty and location of the English lavender farms, and the yield of lavender per acre.

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1871

Lavender Brandy.

Drugg. Circ., 15, p. 157.

Gives a formula for lavender brandy, which contains oil of lavender.

Delieux, J. F. J. A.

1872

(Eau Distillee de Lavande Dans Les Collyres.)

Bull. Therap., --, p. -- (Rep. de Pharm., 27, p. 458;  
Am. Journ. Pharm., 44, p. 392; Drugg. Circ., 16, p. 187;  
Ibid., 19, p. 187.)

(Recommends the use of distilled lavender water as eye washes and as a vehicle of collyria for eye infections, and gives formulas for several collyria and washes.)

The original was not available.

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1872

(Oleum Lavandulae.)

Drugg. Circ., 16, p. 175.

Gives the formulas for 2 lavender waters and for 1 cologne water, each of which contains oil of lavender.

( ) 1872

(The Lavender Country.)

Journ. Applied Sci., 3, p. 339 (Am. Journ Pharm., 44, p. 510; Proc. Am. Pharm. Assoc., 21, p. 219.)

(Discusses the soil conditions, climate, cultivation, distillation, and yield of lavender near Mitcham.)

The original was not available.

( ) 1873

Lavender.

Drugg. Circ., 17, p. 35.

Discusses the climate, soil, cultivation, distillation, and relative yields of lavender in England.

( ) 1874

Larcq, D.

(Oleum Lavandulae.)

Comptes de l'argenterie des Rois de France, 2, p. 148  
(Flückiger and Hanbury, Pharmacographia, 2 ed., p. 476;  
Tschirch, Handbuch d. Pharmakogn., 1 ed. v. 2, p. 832.)

(Mentions that in 1387 cushions of satin were made for King Charles VI of France, to be stuffed with "lavende".)

The original was not available.

( ) 1874

Flückiger, F.A. and Hanbury, D.

Labiatae.

Pharmacographia, 1 ed., p. 428; Ibid., 2 ed., p. 476  
(Gildemeister and Hoffmann, Die Aetherischen Oele, 1 ed., p. 787; Ibid., 2 ed., v. 3, p. 434.)

Gives synonyms, botanical origin, history, description, production of essential oil, chemical composition, commerce, uses of lavender flowers and other species of Lavender.

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1874

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Spiritus Lavandulae Compositae.

Drugg. Circ., 18, p. 34.

Gives a formula for an improved compound spirit of lavender, containing oil of lavender.

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Perks, S.

1876

True English Oil of Lavender.

Proc. Am. Pharm. Assoc., 24, p. 819 (Flückiger and Hanbury, Pharmacographia, 2 ed., p. 476.)

Discusses the extent of the culture, the introduction into England, the cultivation as early as 1568, the preparation of plantations, harvest, and diseases of lavender.

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Holmes, E. M.

1877

The Cultivation of Medicinal Plants at Hitchin.

Pharm. Journ., 37, p. 301 (Gildemeister and Hoffmann, Die Aetherischen Oele, 1 ed., p. 786; Ibid., 2 ed. v. 3, p. 434; Proc. Am. Pharm. Assoc., 26, p. 208; Am. Journ. Pharm., 49, p. 600; Flückiger and Hanbury, Pharmacographia, 2 ed., p. 477.)

Of 5 species of plants cultivated at Hitchin, the following information is given about oil of lavender: a little history about cultivation at Hitchin, characteristics and information of a disease affecting the plant, method of cultivation, effect of shade and weather, and methods of distillation.

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Avery, C. R.

1878

Perfumery.

Drugg. Circ., 22, p. 135.

Gives formulas for 2 lavender waters, which contain oil of lavender.

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Bruylants, \_\_\_\_.

1879

Recherches sur les essences de romarin, de marjolaine, de lavande, et d'aspic.

Journ. de Pharm. et Chem., 106, p. 138 (Gildemeister and Hoffmann, Die Aetherischen Oele, 1 ed., p. 788; Proc. Am. Journ. Pharm., 31, p. 220.)

Gives the methods and products of distillation, properties, and constituents of the oil of lavender.

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Bruylants, \_\_\_\_.

1879

Recherches sur les essences de romarin, de marjolaine, de lavande, et d'aspic.

Journ. de Pharm. et de Chim., 109, p. 139 (Journ Chem. Soc., 38, p. 50; Am. Journ Pharm., 52, p. 99; Journ. f. prakt. Chem., 153, p. 591.)

Lists the characteristics and constituents of oil of lavender, oil of spike, and oil of marjoram.

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Flückiger, F.A. and Hanbury, D.

1879

Labiatae.

Pharmacographia, 2 ed., p. 476.

Discuss the lavender family under the following heads: Botanical origin of *lavandula vera*, history, description, production of essential oil, chemical composition, commerce, and uses, and other species of lavender with references.

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Stillé, A. and Maisch, J.M.

1879

Oleum Lavendulae, U.S., Br.

Nat. Dispens., 1 ed., p. 975; Ibid., 2 ed., p. 996.

Gives the official English title, official synonyms, the preparation, properties, composition, adulteration, official preparations, and the medical action and uses of the oil of lavender.

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Avery, C. R.

1880

Sundry Formulas for Perfumery.

Drugg. Circ., 24, p. 138.

Gives a formula for lavender water, which contains oil of lavender.

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Dudley, W. L.

1881

Chemical Examination of Volatile Oils.

Pharm. and Chem., 14, p. 164 ( Drugg. Circ., 25, p. 114.)

Describes the properties and tests most commonly accepted for the various impurities in the oil of lavender.

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Gardner, R. W.

1881

Perfumery Receipts.

Drugg. Circ., 25, p. 26.

Gives a formula for an amber lavender water, which contains English oil of lavender.

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( ) . 1881

(Cheap Lavender Water.)

Chem. Jour., --, p. -- (Drugg. Circ., 14, p. 163.)

(Gives the formula for a cheap lavender water which contains oil of lavender.)

The original was not available.

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(Editor.) 1882

British Pharmaceutical Conference.

Pharm. Journ., 42, p. 161 (Am. Journ. Pharm., 54, p. 529.)

Includes a summary of the résumé given by W. A. Shenstone of "Some Experiments on English Oil of Lavender" which discussed the deposit of a camphor-like substance when oil of lavender becomes chilled.

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( ) 1882

(Cultivation of Lavender in Southern India.)

Monthly Mag. of Pharm., 7, p.-- (Drugg. Circ., 15, p. 127.)

(Lavender is not grown very extensively in Southern India and is not distilled at all.)

The original was not available.

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Wood, H. C., Remington, J.P., Sadtler, S.P. 1883

Oleum Lavandulae.

Dispens., U.S.A., 15 ed., p. 1014; Ibid., 16 ed., p. 1054;  
\*Ibid., 17 ed., p. 940; \*Ibid., 18 ed., p. 940; Ibid., 19 ed.,  
p. 850.

Gives the official English title, official definitions, botanical derivation, official synonyms, properties, composition, uses, doses, action, and official preparations of oil of lavender, and properties and uses of oil of spike. \*Omit official preparations.

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Flückiger, F. A.

1884

Die Industrie der Aetherischen Oele  
in Grasse.

Archiv. d. Pharm., 222, p. 473 (Pharm. Journ., 44, p. 488;  
Am. Journ. Pharm., 57, p. 131; Proc. Am. Pharm. Assoc., 33,  
p. 253.)

Gives detailed information regarding the essential oil industry in Grasse, including oil of lavender, its preparation and the character of the anhydrous volatile oils.

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Stillé, A. and Maisch, J. M.

1884

Oleum Lavendulae, U.S., Br., P.G.

Nat. Dispens., 3 ed., p. 1063.

Gives the official English title, official synonyms, the definition, the National Order, the preparation, properties, composition, adulteration, official preparations, and the medicinal action and uses of the oil of lavender and mentions the oil of lavender-flowers.

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Cristiani, \_\_\_\_\_.

1885

(Waters.)

Perf. and Kindred Arts, - ed., p.--(Drugg. Circ., 18, p.153.)

(Gives formulas for Florida Water, Lavender Water, and Toilet Vinegar, each of which contains oil of lavender.)

The original was not available.

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Dick, \_\_\_\_.

1885

(Hartshorn and Lavender.)

Dick's Encyc., ---, p. -- (Drugg. Circ., 18, p. 112.)

(Gives two formulas for ammoniacal lavender water, one of which contains oil of lavender and the other contains essence of lavender.)

The original was not available.

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Flückiger, F. A.

1885

The Essential Oil Industry in Grasse.

Am. Journ. Pharm., 57, p. 132 (Wood and Bache, Dispens., U.S.A., 16 ed., p. 1054; Ibid., 17 ed., p. 941; Ibid., 18 ed., p. 940; Ibid., 19 ed., p. 850.)

Gives the amounts of oil produced from Lavandula vera and Lavandula spica at Grasse annually.

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Holmes, E. M.

1885

The Cultivation of Medicinal Plants at Brighton.

Pharm. Journ., 45, p. 125 (Pharm. Journ., 49, p. 659; Proc. Am. Pharm. Assoc., 34, p. 403.)

Of 3 plants cultivated at Brighton, detailed data are given concerning the cultivation of lavender, change in variety, and type of soil.

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Laval, H.

1886

Du Commerce des lavandes et de leur distillation dans le massif du Ventoux.

Journ. de Pharm. et Chim., 116, p. 649 (Gildemeister and Hoffmann, 1 ed., p. 786.)

Gives Malavard's and Belon's methods of distilling oil of lavender.

Laval, H.

1886

Du Commerce des lavandes et de leur  
distillation dans le massif du Ventoux.

Journ. de Pharm. et Chim., 116, p. 593 (Gildemeister and  
Hoffmann, 1 ed., p. 786.)

Gives the following information about the  
industry and commerce of oil of lavender in Massif du  
Ventoux: botanical characteristics of lavender, habitat  
of true lavender, botanical character of aspic, habitat  
of aspic, medical uses, properties of oil of lavender  
and of oil of aspic, adulteration of these 2 oils,  
collection of lavender, commercial values and distillation  
of lavender.

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Schimmel and Co.

1886

Lavendel-Oel.

Bericht, October, p. 18.

Give the then current price of oil of  
lavender.

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Schimmel and Co.

1886

Lavendel-Oel.

Bericht, April, p. 18.

Mention the price, market conditions, and  
the presence of camphor in oil of lavender.

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Part

(A Practical Pharmacist.)

1887

Toilet Requisites.

Drugg. Circ., 31, p. 54.

Gives the formulas for Florida Water and  
Lavender Water, each of which contains oil of lavender.

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Dubelle, G. H. 1887

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Medicated Tablets.

Drugg. Circ., 31, p. 66.

Gives formulas for Lavender Blossom Tablets and Extract of Lavender Blossom, each of which contain essence of lavender.

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Dubelle, G. H. 1887

Superior Flavoring Extracts.

Drugg. Circ., 31, p. 32.

Gives a formula for Extract of Lavender which contains oil of lavender.

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Schimmel and Co. 1887

Lavandel - Oel.

Bericht, Apr., p. 19.

Give a comparison of the lavender oils from various producing countries.

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Schimmel and Co. 1887

Lavandel - Oel.

Bericht, Oct., p. 18.

Discuss French and Mitcham oil of lavender.

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(An Ancient Perfumer.) 1888

Toilet Waters.

Drugg. Circ., 32, p. 5,

Gives formulas for 7 cologne waters, each of which contains oil of lavender.

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Schimmel and Co. 1888

Lavendel - Oel.

Bericht, Oct., p. 21 (Journ. f. prakt. Chem., 153, p. 600.)

Compare the properties of several samples of lavender oil.

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Schimmel and Co. 1888

Lavendel - Oel.

Bericht., Apr., p. 25.

Discuss the price and the ester-content of English and German oil of lavender.

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Snively, \_\_\_\_ 1888

(Toilet Waters.)

Mfg. of Perf., - ed., p.--(Drugg. Circ., 32, p. 158; Ibid., 34, p. 157; Ibid., 37, p. 37.)

(Gives formulas for 5 cologne waters, each of which contains oil of lavender.)

The original was not available.

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Oil of Lavender:

Pharm. Journ., 49, p. 659 (Gildemeister and Hoffmann, Die Aetherischen Oele, 11 ed., p. 787; Ibid., 2 ed., v. 3, p. 434; Proc. Am. Pharm. Assoc., 38, p. 659.)

Mr. Sawyer gives his observations on the cultivation of the lavender plant and the distillation of the oil of lavender.

Lavender Oil.

Semi-Ann. Report, Oct., p. 37.

Discuss probable methods for the detection of adulterants with tables and explanations as to their values, elaborating on the oil of Turpentine test, and the perfume which the fine oil of Lavender loses rather than gains during the distillation.

In the Mitcham Flower - Fields.

Chem. and Drugg., 39, p. 398 (Gildemeister and Hoffmann, Die Aetherischen Oele, 1 ed., p. 787; Ibid., 2 ed., v. 3, p. 434; Am. Drugg., 20, p. 327; Proc. Am. Pharm. Assoc., 40, p. 618.)

Gives information about the following subjects: At Waddon: The first Still-house, the Shrinkage of the herb fields, the still started, the old system, the Receiver, Discharging the Still, the Waste-waters, The Lady of the Lavender, a lavender field, Mint and Camomiles, Distilling V. Bunching, Jerry Keeps marching on, Snuff and Manure, The Darned "Mounsuer", The Cockney Invader, On French soil, Arcadia, The Millers, The Figures, The Last Still House. Also interesting pictures relating to Peppermint oil and Lavender oil.

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Dieterich, E.

1891

Lavendel - Salz.

Pharm. Centralh., 32, p. 138 (Proc. Am. Pharm. Assoc., 39, p. 359.)

Gives directions for the preparation of lavender- salts.

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Sawer, J. C.

1891

Lavender: Its Cultivation and Distillation.

Chem. and Drugg., 38, p. 397 (Odorographia, 1 ed., p. 354; Gildemeister and Hoffmann, Die Aetherischen Oele, 1 ed., p. 787; Parry, The Chem. of Essen. Oils, 3 ed., v. 1, p. 186; Schimmel and Co., Semi-Ann. Report, Apr., 1891, p. 39; Steele, E. F., Can Perfumery Farming Succeed in the U.S., Yr. Bk. Dept. Agri., 1898, p. 389.)

Names the various lavender fields, gives methods of cultivation, on what the harvest depends, distilling apparatus and 2 sketches, diseases, weeds in the fields, renewing the soil, oil of lavender: properties, lavender perfumery formulas, and uses.

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Schimmel and Co.

1891

Lavender oil.

Semi-Ann. Report, Apr., p. 39 (Journ. f. prakt. Chem., 153, p. 600.)

Give data on the year's supply of lavender and Mitcham lavender oil.

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Schimmel and Co.

1891

Lavender Oil.

Semi-Ann. Report, Oct., p. 31.

Give facts about the crops, market, and prices of that season.

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( ) 1891  
(Lavandel - Duftpräparate.)

Industri-Bl., - , p. - (Pharm. Centralh., 32, p.347.)

(Gives numerous formulas for lavender water and perfumes.)

The original was not available.

( ) 1891  
Lavender Perfumes.

Drugg. Circ., 35, p. 152; Ibid., 43, p. 264.

Gives formulas for 7 perfumes containing oil of lavender.

Bertram, J. and Walbaum, H. 1892  
Ueber Lavendeloel und Bergamottoel.

Journ. f. prakt. Chem., 153, p. 590 (Schimmel and Co., Semi-Ann. Report, Oct., 1892, p. 27; Ibid., Apr., 1893, p. 43; Ibid., Oct., 1893, p. 26; Ibid., Apr., 1904, p. 61; Ibid., 1935, p. 47; Perf. and Essent. Oil Rec., 18, p. 48; Proc. Am. Pharm. Assoc., 41, p. 883.)

Give the results of their investigation of oil of lavender under the following heads: the distillation of lavender alcohols in lavender oil, esters in lavender oil, oxidation of alcohols of lavender, and agents which cause water to be added to the alcohol  $C_{10}H_{18}O$ .

Schimmel and Co. 1892  
Lavender Oil.

Semi-Ann. Report, Apr., p. 35 (Ibid., 1935, p. 47; Ibid., 1903, p. 45, Apr.)

Give principal results in the investigation of lavender attained in their laboratory, as to the constituents.

Schimmel and Co.

1892

Lavender Oil.

Semi-Ann. Report, Apr., 1892, p. 35 (Wood and Bache, Dispens., U.S.A., 17 ed., p. 941; Journ. f. prakt. Chem., 153, p. 590.)

Give the results of their investigation of Lavender oil - state principal constituents, properties, description, alcohol present, and the chemical composition.

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Schimmel and Co.

1892

Lavender Oil.

Semi-Ann. Report, Oct., p. 27.

Report the conditions existing in the various sections in regard to crops.

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Semmler, F. W. and Tiemann, F.

1892

Ueber sauerstoffhaltige Bestandtheile einiger Aetherischer Oele.

Ber. d. d. Chem. Ges., 25, p. 1180 (Chem Ztg., Rpt., 16, p.147; Ber. d. d. Chem. Ges., 24, p. 210; Schimmel and Co., Semi-Ann. Report, Oct., 1892, p. 27; Ibid., Apr., 1893, p. 43; Am. Journ. Pharm., 64, p. 306; Proc. Am Pharm. Assoc., 40, p.618.)

List the oxygenated constituents of several oils, including the oil of lavender.

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1892

Miscellaneous Formulas.

Drugg. Circ., 36, p. 200.

Gives a formula for Lavender water, which contains oil of lavender.

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( ) 1892

Miscellaneous Formulas.

Drugg. Circ., 36, p. 152.

Gives formulas for Perfume, Smelling Salt, Aromatic Vinegar, Lavender Water, each of which contain Oil of Lavender.

( ) 1892

(Oleum Lavandulae.)

Rev. de Thérap., --, p. 418 (Am. Journ. Pharm., 64, p. 518; Proc. Am. Pharm. Assoc., 41, p. 449.)

(Give the formula for ammoniated essence of lavender for smelling bottles.)

The original was not available.

Schimmel and Co.

1893

Lavender Oil.

Semi-Ann. Report, Apr., p. 43 (Wood and Bache, Dispens., U.S.A., 17 ed., p. 941.)

Give data concerning the consumption, uses, composition, especially by quantitative determination of linalool and esters in oil of lavender and mixtures of oil of lavender with oil of turpentine.

Schimmel and Co.

1893

Lavender Oil.

Semi-Ann. Report, Oct., p. 26 (Gildemeister and Hoffmann, Die Aetherischen Oele, 1 ed., p. 787; Proc. Am. Pharm. Assoc., 42, p. 1154; Perf. and Essent. Oil Rec., 23, p. 340.)

Give the plant parts from which the oil of lavender is obtained, the specific gravity, constituents, and other data concerning oil of lavender.

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1893

Lavender Smelling Salt.

Drugg. Circ., 37, p. 16.

Gives the formula for lavender Smelling Salt, which contains oil of Lavender.

( )

1893

Miscellaneous Formulas.

Drugg. Circ., 37, p. 8.

Gives a formula for Lavender Water containing Oil of Lavender.

Sawer, J. C.

1894

Lavender.

Odorographia, 2 ed., p. 426.

Gives the results of various investigations as to the presence of Linalool in oil of lavender; ester determination constitutes a new test for oil of lavender.

Schimmel and Co.

1894

Lavender Oil.

Semi-Ann. Report, Apr., p. 34 (Ibid., Oct., 1897, p. 31.)

State that the valuation of lavender oil is based on its physical properties and its ester percentage. List the properties of pure lavender oil and a few examples of adulterated oils.

Schimmel and Co.

1894

Lavendel - Oel.

Bericht, Oct., 1894, p. 30 (Gildemeister and Hoffmann, Die Aetherischen Oele, 1 ed., p. 788; Schimmel and Co., Bericht., Apr., 1898, p. 31.)

Discuss the ester content in oil of Lavender.

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Schimmel and Co.

1894

Lavender Oil.

Semi-Ann. Report, Oct., p. 32 (Gildemeister and Hoffmann, Die Aetherischen Oele, 2 ed., v. 3, pp. 434 & 440; Steele, E. F., YrBk. Dept. of Agri., 1898, p. 389.)

Divide the commercial lavender into 2 groups according to ester content and give data about them, the water-white lavender oils and the Mitcham lavender oils.

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Schimmel and Co.

1894

Lavender Oil.

Semi-Ann. Report, Oct., p. 32 (Ibid., Oct., 1897, p. 31; Ibid., Apr., 1898, p. 30; Gildemeister and Hoffmann, Die Aetherischen Oele, 2 ed., v. 4, pp. 434 & 440.)

Elaborate on the idea of estimation of the ester content for determining the quality of oil of lavender; mention differences in appearance of the lavender oils, and the ester of Mitcham Oil of Lavender.

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Stillé, A., Maisch, J.M., Caspari, C., and Maisch, H. C. C.

1894

Oleum Lavandulae Florum U.S., Br., P.G.

Nat. Dispens., 5 ed., p. 1127.

Gives the official English title, official synonyms, a definition, the natural order, the preparation, properties, composition, adulteration, tests, and action and uses of oil of lavender flowers.

( )

1894

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Lavender Water.

Drugg. Circ., 38, p. 132.

Gives 2 formulas for lavender water, each of which contains oil of Lavender.

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Helbing, H. and Passinore, F. W.

1895

Oleum Lavandulae.

Bull. of Pharm., 9, p. 259 (Proc. Am. Pharm. Assoc., 43, p. 1033.)

Give the physical properties, suggest some pharmacopoeial requirements, such as specific gravity, optical rotation, solubility, and assay of oil of lavender.

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Massol, G.

1895

Pouvoir rotatoire des essences d'aspic et de lavande.

Journ. de Pharm. et Chim., 140, p. 49 (Schimmel and Co., Semi-Ann. Report, Apr., 1895, p. 48; Proc. Am. Pharm. Assoc., 43, p. 1032.)

Give data about the specific gravity and rotatory power of lavender oil and spike oil, and compares his results with those obtained by other French investigators.

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Schimmel and Co. 1895

Lavender Oil.

Semi-Ann. Report, Apr., p. 47.

Give reasons for being capable of giving a better product than others, to the public and list data about Lavender oil and spike oil.

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Schimmel and Co. 1895

Lavender Oil.

Semi-Ann. Report, Oct., p. 30 (Ibid., Oct., 1897, p. 31.)

Discuss crop conditions, where the best oils are distilled, favor as a basis for purchase the ester content, and uses of oil of lavender.

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Schimmel and Co. 1896

Lavender Oil.

Semi-Ann. Report, Apr., p. 42.

Give details of the 2 grades of oil of Lavender they offer; also mention how other countries determine the value of lavender oil.

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Schimmel and Co. 1896

Lavender Oil.

Semi-Ann. Report, Oct., p. 52 (Proc. Am. Pharm. Assoc., 45, p. 630; Pharm. Journ., 57, p. 358.)

Give information about the crops, specific gravity, optical rotation, solubility, ester contents, and estimation of the ester of lavender oil.

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Umney, J. C.

1896

Victorian Essential Oils.

Pharm. Journ., 57, p. 199 (Drugg. Circ., 45, p. 15;  
Pharm. Journ., 65, p. 490; Perf. and Essent. Oil Rec.,  
3, p. 331.)

Reports on the character and probable  
commercial value of 12 volatile oils, including Oil  
of Lavender.

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Charabot, E.

1897

Sur l'essence de lavande d'Espagne.

Bull. Soc. Chim., s. 3, 17, p. 378 (Schimmel and Co.,  
Semi-Ann. Report, Oct., 1897, p. 34.)

Gives a detailed report of his examination  
of a Spanish lavender oil.

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(Editor.)

1897

English Lavender Oil.

Pharm. Journ., 58, p. 53 (Gildemeister and Hoffmann,  
Die Aetherischen Oele, 1 ed., p. 787; Ibid., 2 ed.,  
v. 3, p. 434.)

States that English lavender oil excels  
others and that there would be no diminution of the  
home product, as had been rumored.

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(Editor.)

1897

Lavender Industry.

Pharm. Journ., 58, p. 52 (Gildemeister and Hoffmann,  
Die Aetherischen Oele, 1 ed., p. 787.)

Commenting on an article in the current London  
dailies, states and reassures the people that the English  
source of lavender-Hitchin and Mitcham is not threatened  
with extinction.

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Jelliffe, S. E.

1897

A Study of Some of the Nutlets of  
the Official Labiates.

Drugg. Circ., 41, p. 34.

Discusses the size and shape and sketches  
the seeds of the members of the Labiate family,  
including Lavender species.

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Perks, \_\_\_ and Llewellyn, \_\_\_.

1897

"Sweet Lavender".

Pharm. Journ., 58, p. 59 (Ibid., 58, p. 53.)

Speaking for Hitchins - wish to correct the  
false impression created by current papers in regards to  
the extinction of English Oil of Lavender. Their crop  
looked promising and more acreage was to be put in.

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Schimmel and Co.

1897

Lavandel - Oele.

Bericht, Apr., p. 25 (Gildemeister and Hoffmann,  
Die Aetherischen Oele, 1 ed., p. 790.)

State that the consumption of the oil  
of lavender is ever increasing.

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Schimmel and Co.

1897

Lavender Oil.

Semi-Ann. Report, Apr., p. 23.

Give commercial values of various oils, an  
experience with a firm in Grasse in regard to testing  
values and adulterations of Lavender Oil.

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Schimmel and Co.

1897

Lavender Oil.

Semi-Ann. Report, Oct., p. 31.

Give results of yields from the various producing departments, argues for the influence of esters on the quality of lavender oil, and give a description of Spanish lavender oil.

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(Editor.)

1898

English Lavender and Peppermint.

Brit. and Col. Drugg, 34, p. 338 (Gildemeister and Hoffmann, Die Aetherischen Oele, 1 ed., p. 787; Ibid., 2 ed., v. 3, p. 434.)

Comments on and gives 5 pictures on the following subjects: where they grow to perfection, The Mitcham district, The Distillers, The stills of Mitcham, The distilling process, The Hitchim and Amphill Districts, The herb fields, relative to the above plants.

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Schimmel and Co.

1898

Lavendel - Oel.

Bericht, Apr., p. 32 (Gildemeister and Hoffmann, Die Aetherischen Oele, 1 ed., p. 790; Journ. de Pharm. et Chim., 116, p. 138.)

Give extract of several articles on oil of lavender.

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Schimmel and Co.

1898

Lavender Oil.

Semi-Ann. Report, Apr., p. 30 (Steele, E. F., Yrbk. Dept. of Agri., 1898, p. 389.)

Continue the dispute over the estimation of the value of oil by determination of ester content; mention the progress made on the determination of geraniol content in oil of lavender.

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Schimmel and Co.

1898

Lavender Oil.

Report, Oct., p. 31 (Proc. Am. Pharm. Assoc., 60, p. 47.)

Describe the source, characteristics, and properties of a new Portuguese Lavender Oil.

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Steele, E. S.

1898

Can Perfumery - Farming Succeed in the United States?

Yrbk. Dept. Agri., 1898, p. 377 (Schimmel and Co., Semi-Ann. Report, Oct., 1899, p. 35; Pharm. Era, 21, pp. 799 & 837; Tschirch, Handb. d. Phkog., 2 ed., v. 1., p. 144.)

Discusses commercial data, methods of extraction, 13 plants from which perfume is obtained - including lavender, native perfumery plants, economic conditions, and includes 7 illustrations of various phases of the distillation process and of plants.

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Gildemeister, E. and Hoffmann, F.

1899

Lavendelöl.

Aetherischen Oele, 1 ed., p. 783 (King, Am. Dispens., 3 rev., 18 ed., v. 2, p. 1362.)

Gives the O.G.T., the O.L.T. and the O.E.T., the source, history, manufacture, picture of a portable distillery, characteristics, properties, composition, tests, and value of lavender oil, also the same information about the oil of spike.

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Schimmel and Co. 1899

Lavender Oil.

Semi-Ann. Report, Apr., p. 29.

Report the commercial conditions as to oil of lavender.

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Schimmel and Co. 1899

Lavender Oil.

Semi-Ann. Report, Oct., p. 35.

Mention weather conditions, crops, details of departmental yields, and refer to the attempt to cultivate lavender in the United States.

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( ) 1899

Formulary.

Drugg. Circ., 43, p. 86.

Gives 3 formulas for Lavender Water, each of which contains Oil of Lavender.

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( ) 1899

Lavender Ammonia.

Drugg. Circ., 43, p. 138.

Gives a formula and variations of it for Lavender Ammonia.

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( ) 1899

Portuguese Lavender Oil.

Drugg. Circ., 43, p. 61.

Gives the characteristics of lavender oil distilled from a Portuguese plant.

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Charabot, E.

1900

Genèse des composés terpéniques dans la lavande.

Compt. rend., 130, p. 257 (Pharm. Journ., 64, p. 249; Proc. Am. Pharm. Assoc., 48, p. 751; Gildemeister and Hoffmann, Die Aetherischen Oele, 2 ed., v. 3, p. 426.)

Reports the results obtained as the specific gravity, esters, free alcohols, and total alcohols upon examining the volatile oil of lavender at different stages of flowering - flowers in bud, flowers fully expanded, and flowers fading.

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Erdmann, E.

1900

Über den Geruchssinn und die Wichtigsten Riechstoffe.

Zeits. f. angewandte Chem., 13, p. 103 (Am. Journ. Pharm., 72, p. 220; Proc. Am. Pharm. Assoc., 49, pl836.)

Gives the specific gravity, solubility in 10% alcohol, optical rotation, and ester percentage of oil of lavender.

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Henderson, H. J.

1900

The Specific Gravity of English Lavender Oil.

Pharm. Journ., 65, p. 490 (Drugg. Circ., 45, p. 15; Perf. and Essent. Oil Rec., 3, p. 39; Proc. Am. Pharm. Assoc., 49, p. 823.)

Discusses the use of the specific gravity of oils to determine the value of oil of lavender.

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King, J.W., Felter, H.W. and Lloyd, J.W. 1900

Oleum Lavandulae Florum.

King's Am. Dispens., 3 red., 18 ed., p. 1362.

Gives the official English title, official definition, preparation, description, chemical composition, action, medical uses, and dosage, and related oils as the oil of lavender flowers.

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Schimmel and Co. 1900

Lavender Oil.

Semi-Ann. Report, Apr., p. 32.

Mention a shortage of oil with 40% ester content and the large amount of oil with 30% ester content.

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Schimmel and Co. 1900

Lavender Oil.

Semi-Ann. Report, Oct., p. 39 (Gildemeister and Hoffmann, Die Aetherischen Oele, 2 ed., v. 3, p.441; Proc. Am. Pharm. Assoc., 49, p. 823.)

Give reports received from the various producing districts in France, tests to determine the quality of the oil, constituents of the oil -isolation of cumarin a new one, an example of adulteration of oil of lavender by adding resin and the adulteration of the oil.

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( ) 1900

Bath Powder.

Drugg. Circ., 44, p. 124.

Gives a formula for a Bath Powder which contains Oil of Lavender.

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(Editor.) 1901

Lavender Perfumes.

Drugg. Circ., 45, p. 38.

Gives formulas for 2 perfumes, each containing oil of lavender.

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(Editor) 1901

Lavender Sachet.

Drugg. Circ., 45, p. 148.

Gives a formula for a sachet containing oil of lavender..

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(Editor.) 1901

Lavender Soap.

Drugg. Circ., 45, p. 214.

Gives a formula for a soap containing oil of lavender.

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(Editor.) 1901

Toilet Preparations.

Drugg. Circ., 45, p. 151(Ibid., 46, p. 150.)

Gives formulas for 2 cologne waters, 2 lavender waters, and rose lavender water, each of which contains oil of lavender.

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Schimmel and Co.

1901

Lavender Oil.

Semi-Ann. Report, Apr., p. 40.

Mention that prices are firm, the departments which have the most oil of lavender, and the weather conditions.

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Schimmel and Co.

1901

Lavender Oil.

Semi-Ann. Report, Oct., p. 34 (Proc. Am. Pharm. Assoc., 50, p. 979.)

Give reports from the leading districts as to crops and weather; mention adulterations and the requirements of German Pharmacopoeia as to lavender oil and how these may be met.

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(Editor.)

1902

Gathered Formulas.

Merk's Report, 11, p. 296 (Proc. Am. Pharm. Assoc., 51, p. 657.)

Gives 3 formulas for "lavender water."

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(Editor,)

1902

Gathered Formulas.

Merck's Report, 11, p. 366 (Proc. Am. Pharm. Assoc., 51, p. 657.)

Gives 4 formulas for "Florida Water".

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- (Editor.) 1902  
Lavender Bouquet.  
Drugg. Circ., 46, p. 16.  
Gives a formula for lavender bouquet.
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- (Editor.) 1902  
Lavender Bouquet.  
Drugg. Circ., 46, p. 234.  
Gives a formula for lavender bouquet.
- 
- (Editor.) 1902  
Waters.  
Drugg. Circ., 46, p. 60.  
Gives formulas for Florida Water and  
Lavender Water, each containing oil of lavender.
- 
- (Editor.) 1902  
Waters.  
Drugg. Circ., 46, p. 126.  
Gives formulas for lavender water and  
cologne water, each containing oil of lavender.
- 
- Parry, E. J. 1902  
Oil of Lavender.  
Chem. and Drugg., 61, p. 168 (Schimmel and Co., Semi-Ann.  
Report, Oct., 1902, p. 46; Proc. Am. Pharm. Assoc., 51,  
p. 900; Drugg. Circ., 46, p. 185; Am. Journ. Pharm., 75, p. 162.)

Gives his reasons for the ester content of the oil of lavender not being a means of determining its value; includes a picture of the distillation of lavender in "Alpes Maritimes".

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Parry, E. J.

1902

The Ester-Value of Lavender Oil.

Chem. and Drugg., 61, p. 1028 (Drugg. Circ., 48, p. 15.)

Resummarizes his reasons for believing that the ester content of the oil of lavender is not a means of valuation of the oil.

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Schimmel and Co.

1902

Lavender Oil.

Semi-Ann. Report, April, p. 73.

Give data of the new Swedish Pharmacopoeia about oil of lavender.

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Schimmel and Co.

1902

Lavender Oil.

Semi-Ann. Report, Apr., p. 45 (Gildemeister and Hoffmann, Die Aetherischen Oele, 2 ed., v. 3, p. 441; Proc. Am. Pharm. Assoc., 50, p. 979; Tschirch, Handbuch d. Pharmakogn., 2 ed., p. 827.)

Tell about the splendid selections of lavender available, and how and where they were obtained; mention the constant occurrence of new adulterants, giving examples; also include a map of production centers.

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Schimmel and Co.

1902

Lavender Oil.

Semi-Ann. Report, Oct./Nov., p. 46.

Mention the conditions in the various producing areas as to the crops and weather; disagree with Parry's arguments against accepting ester-content as a standard of value for the oil and the reasons, describe the properties of Oil of Lavender adulterated with benzoic and salicylic acids.

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Scoville, W. L.

1902

Colognes and Toilet Waters.

Proc. Am. Pharm. Assoc., 50, p. 504.

Gives formulas for various colognes and toilet waters, including Lavender Water.

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Weber, J. E.

1902

(Adulterated Lavender Oil.)

Chem. Zeit., 26, p. 875 (Drugg. Circ., 46, p. 260;  
Am. Journ. Pharm., 75, p. 162.)

(Discusses the adulteration of oil of lavender with salicylic acid and gives methods for detecting it.)

The original was not available.

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(Editor.)

1903

Lavender Bouquet.

Drugg. Circ., 47, p. 16.

Gives a formula for lavender bouquet, containing oil of lavender.

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(Editor.)

1903

Waters.

Drugg. Circ., 47, p. 128.

Gives formulas for 2 Cologne Waters, 2 Lavender Waters, Rose Lavender Water, and 4 Florida Waters, each containing Oil of Lavender.

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Schimmel And Co.

1903

Lavender Oil.

Semi-Ann. Report, Apr./May, p. 44 (Schimmel and Co., Ann. Report, 1935, p. 47; Proc. Am. Pharm. Assoc., 51, p. 900; Perf. and Essent. Oil Rec., 23, p. 340.)

Give the original and the more recently discovered constants and constituents of French lavender oil; also include pictures of 3 portable stills with explanations.

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Schimmel and Co.

1903

Lavender Oil.

Semi-Ann. Report, Oct./Nov., p. 42.

Mention the good crops; give results of tests for amyl alcohol and the constants of ethyl amyl ketone and tests carried on with it and the requirements of the oil of Lavender according to the Belgian Pharmacopoeia.

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Umney, J. C.

1903

English Lavender Oil and the British Pharmacopoeia, 1898.

Chem. and Drugg., 63, p. 825 (Proc. Am. Pharm. Assoc., 52, p. 867; Drugg. Circ., 48, p. 36; Tschirch, Handbuch d. Pharmakogn., 2 ed., p. 831; Gildemeister and Hoffmann, Die Aetherischen Oele, 2 ed., v. 3, p. 434; Schimmel and Co., Semi-Ann. Report, Apr./May, 1904, p. 61.)

Discusses the relatively primitive existing methods of distillation of the oil of lavender and the non-compliance of oil produced thus with the Br.P. requirements.

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Wilbert, M. I.

1903

Some Notes On Essential Oils.

Am. Journ. Pharm., 75, p. 162.

Mentions the price, ester content, and adulteration of oil of lavender with the opinion of 3 writers and their findings.

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(Editor.)

1904

Aromatic Vinegar.

Drugg. Circ., 48, p. 81.

Gives a formula for an aromatic vinegar containing Oil of Lavender.

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(Editor.)

1904

Lavender Perfumes.

Drugg. Circ., 48, p. 16.

Gives 6 formulas for Lavender Perfumes, containing Oil of Lavender.

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(Editor.)

1904

Lavender Waters.

Drugg. Circ., 48, p. 81.

Gives formulas for 3 perfumes containing Oil of Lavender.

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Schimmel and Co.

1904

Lavender Oil.

Semi-Ann. Report, April/May, p. 61 (Ibid., Nov., 1908, p. 80.)

Report on the shortage of oil of lavender for the past season and refers to Umney's article on lavender.

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Schimmel and Co.

1904

Lavender Oil.

Semi-Ann. Report, Oct., p. 50 (Gildemeister and Hoffmann, Die Aetherischen Oele, 2 ed., v. 3, p. 441; Schimmel and Co., Semi-Ann. Report, Oct., 1906, p. 44; Proc. Am. Pharm. Assoc., 53, p. 764.)

Mention the shortage of the lavender crop and the resulting adulteration of the lavender oil, especially with spike oil.

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Schimmel and Co.

1905

Lavender Oil.

Semi-Ann. Report, Apr., p. 41 (Gildemeister and Hoffmann, Die Aetherischen Oele, 2 ed., v. 3, p. 441.)

Mention the great increase in usage and the subsequent shortage of product, gives detailed data concerning the wide adulteration of oil of lavender, with tables of their physical properties.

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Schimmel and Co.

1905

Lavender Oil.

Semi-Ann. Report, Apr./May, p. 50.

State that in order to avoid future shortage, they are establishing their own distilling stations; name adulterants detected by them, giving properties of pure lavender oil and adulterants and the methods of their detection as Turpentine oil, Spike oil, Spanish lavender oil, Rosemary oil, and succinic acid.

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Schimmel and Co.

1905

Lavender Oil.

Semi-Ann. Report, Oct./Nov., p. 40 (Gildemeister and Hoffmann, Die Aetherischen Oele, 2 ed., v. 3, p. 441; Proc. Am. Pharm. Assoc., 54, p. 879.)

Give information about and a picture of the new distillery at Barrène (Basses-Alpes), distillation taking place here under conditions securing a high ester content; mention adulterations, accompanied by a table showing their effects on the oil of lavender; and describes the oil of Lavandula Stoechas.

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1905

Lavender Water.

Drugg. Circ., 49, p. 59.

Gives a formula for Lavender Water containing Oil of Lavender.

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Bennett, C. T.

1906

Essential Oils: Use of Artificial Esters as Adulterants Thereof.

Chem. and Drugg., 69, p. 691 (Gildemeister and Hoffmann, Die Aetherischen Oele, 2 ed., v. 3, p. 441; Schimmel and Co., Semi-Ann. Report, Apr., 1907, p. 66; Am. Perf. and Essent. Oil Rec., 3, p. 180.)

Gives a list of the various adulterants added to oil of lavender because of the higher prices and gives the methods of detection of artificial esters when present, especially ethyl citrate.

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Birkenstock, A.

1906

Action de l'hybridation sur les essences de lavande et aspic.

Monit. Scient., --, p. -- (Schimmel and Co., Semi-Ann. Report, Oct., 1906, p. 43; Ibid., April, 1912, p. 86; Proc. Am. Pharm. Assoc., 55, p. 880; Gildemeister and Hoffmann, Die Aetherischen Oele, 2 ed., v. 3, p. 27.)

(Reports on the influence which the cross fertilization of lavender and spike has on the essential oil of these plants, on the ester content, on the properties of oils, and on "lavandin.")

The original was not available.

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Schimmel and Co.

1906

Lavender Oil.

Semi-Ann, Report, Apr./May, p. 41.

Mention the price, a controversy with a company and odor test; give a brief account of the cultivation of lavender as carried on at the Court Burgundy in the 14 th Century.

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Schimmel and Co.

1906

Lavender Oil.

Semi-Ann. Report, Oct./Nov., p. 42 (Ibid., Apr., 1909, p. 60; Ibid., Oct., 1908, p. 80; Ibid., Apr., 1909, p. 61.)

Give information relative to crops of the season, closed their argument with Lautier Fils of Grass relative to high ester-content of their oil; influence which the cross-fertilization of lavender and spike has on the essential oil of these plants-on ester content and on properties of oils and of "lavadin".  
A. Birckenstock.

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Roure-Bertrand Fils.

1907

(Oleum Lavandulae.)

Bericht, Oct., p. 16 (Schimmel and Co., Semi-Ann. Report, Apr. 1908, p. 63; Am. Perf. and Essent. Oil Rec., 3, p. 82.)

Give the results of the oil yield and the ester content obtained from comparative tests carried on to determine the superior method of distillation.

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Schimmel and Co.

1907

Lavender Oil.

Semi-Ann. Report, Apr., p. 62 (Ibid., Oct., 1907, p. 58; Ibid., Nov., 1908, p. 79; Ibid., Apr., 1911, p. 58; Ibid., Apr., 1914, p. 66; Ibid., 1922, p. 42; Am. Perf. and Essent. Oil Rev., 3, p. 82; Proc. Am. Pharm. Assoc., 55, p. 879.)

Discuss crops; cultivation; formula for a new fertilizer; a higher ester-content oil due to a new water distillation process; types of distillation, their advantages and disadvantages in various respects; practical observations concerning the distillation; new adulterants of oil of lavender, also a table showing the results after drying parts for various periods of time.

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Schimmel and Co.

1907

Lavender Oil.

Semi-Ann. Report, Oct., p. 57 (Ibid., Oct., 1911, p. 58.)

Discuss prices, crops and markets; and mention experiments in the cultivation of lavender made in Southern France.

Culture de la lavande oraie.

Bulletin mensuel du Syndicat agricole vauclésien, 23, p. 230 (Schimmel and Co., Semi-Ann. Report, Apr., 1908, p. 65; Ibid., Oct., 1911, p. 58; Am. Perf. and Essent. Oil Rev., 3, p. 83; Gildemeister and Hoffmann, Die Aetherischen Oele, 2 ed., v. 3, p. 430.)

Discusses the laying-out of lavender fields, with data as to soil, cultivation, and yields of the better-grade lavender oils.

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1907

(Oleum Lavandulae.)

La Revue de Grasse, --, Nos. 8 & 10, pp. --&-- (Schimmel and Co., Semi - Ann. Report, Apr., 1907, p. 62.)

(Endeavors to excite the public's interest in the cultivation of lavender on a large scale to meet the existing demand-describing the soil and climatic conditions necessary for successful cultivation.)

The original was not available.

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1907

(Oleum Lavandulae.)

La Revue de Grasse, 50, Nos. 35 & 46, pp. ---&-- (Schimmel and Co., Semi-Ann. Report, Oct., 1907, p. 58; Ibid., Apr., 1908, p. 65; Am. Perf. and Essent. Oil Rev., 3, p. 83; Gildemeister and Hoffmann, Die Aetherischen Oele, 2 ed., v. 3, p. 430.)

(Advises the growing of lavender on a large scale in Southern France so that profits could be obtained.)

The original was not available.

( ) 1907

(Oleum Lavandulae.)

Le Reveil Agricole, --, p. 373 (Schimmel and Co., Semi-Ann. Report, Apr., 1908, p. 65.)

(Lavender cultivation on a large scale is carried on in the neighborhood of Sault and gives the prices of lavender oil.)

The original was not available.

( ) 1907

(Oleum Lavandulae.)

Le Venteux (Carpentras) No. 300, p.-- (Am. Perf. and Essent. Oil Rev., 3, p. 83; Gildemeister and Hoffmann, Die Aetherischen Oele, 2 ed., v. 3, p. 430.)

(Gives notes on the distillation of oil of lavender.)

The original was not available.

Delphin, T.

1908

En ny förfalskning af lavendelolja.

Svensk. farm. tidskrift, 12, p. 425 (Tidskrift, Pharm. Ztg., 53, p. 984; Proc. Am. Pharm. Assoc., 57, p. 319; Schimmel and Co., Semi-Ann. Report, Apr., 1912, p. 85; Drugg. Circ., 53, p. 139; Ibid., 56, p. 259; Pharm. Journ., 82, p. 60; Am. Journ. Pharm., 81, p. 147.)

Discusses the adulteration of oil of Lavender with Coconut oil ester.

Cultivation and Collection of  
Medicinal Plants.

Chem. and Drugg. Diary, 1918, p. 236 (Gildemeister and Hoffmann, Die Aetherische Oele, 2 ed., v. 3, p. 434.)

Mentions where lavender is grown in England, soil and climate necessary, cultivation, harvesting, and yield of oil from the flowers.

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Grieb, C. M. W.

1908

Ol. Lavand. Ang.

Chem. and Drugg., 72, p. 537 (Gildemeister and Hoffmann, Die Aetherischen Oele, 2 ed., v. 3, p. 434; Schimmel and Co., Semi-Ann. Report, Nov., 1908, p. 80.)

Gives a table of abnormal characters of tested English oil of lavender, states that the official specific gravity limit should be reduced. When judging the quality of English lavender oils, one should be guided by sweetness of aroma principally rather than by the density.

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Jeancard, P. A. and Satie, C.

1908

Remarques analytiques sur les  
essences de lavande.

Bull. Soc. Chim., s. 3, 23, p. 549 (Ibid., s. 4, 3, p. 155; Schimmel and Co., Semi-Ann. Report, Apr., 1908, p. 63; Proc. Am. Pharm. Assoc., 56, p. 328; Am. Perf. and Essent. Oil Rev., 3, p. 82; Tschirch, Handbuch d. Pharmakogn., 2, p. 830.)

Discuss recent observations regarding the influence of the altitude where grown, the method of distillation, and the water used in the latter on the ester-content of lavender oil, the physico-chemical content of lavender oil, and glycerin monoacetate as an adulterant.

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Lamothe, L.

1908

(Lavande et Essence.)

Journ. de la Parfumerie et Savonnerie, 21, p. 172  
(Schimmel and Co., Semi-Ann. Report, Nov., 1908, p. 79;  
Gildemeister and Hoffmann, Die Aetherischen Oele, 2 ed.,  
v. 3, p. 421.)

(Appeals to the small lavender distillers to  
bring their manufacturing process more in line with the  
progress and experience of technical science, in order  
to obtain richer oils and improved fields.)

The original was not available.

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Lamothe, L.

1908

(Lavande et Spic.)

La Revue de Grass, 51, No. 28, p. --- (Schimmel and Co.,  
Semi-Ann. Report, Nov., 1908, p. 76; Ibid., Apr., 1912,  
p. 86; Proc. Am. Pharm. Assoc., 57, p. 173; Am. Perf.  
and Essent. Oil Rev., 3, p. 128.)

(Aims to keep alive and to stimulate the  
interest in lavender cultivation, especially in  
Southern France. Gives detailed botanical descriptions  
of the various species of Lavandula, cost of lavender  
plants, successful cultivation of lavender, methods  
of distillation, yields and uses of the oil of  
lavender.)

The original was not available.

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de Maar, W. J.

1908

(Oleum Lavandulae.)

Pharm. Weekblad., 45, p. 1536 (Schimmel and Co., Semi-  
Ann. Report, Apr., 1909, p. 61.)

(Comments on H. L. Visser's article on the  
examination of lavender oil.)

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Mazuyer, L.

1908

(Lavender -Its History and Production.)

Parf. and Savonnerie, ---, p. --- (Am. Perf. and Essent. Oil Rev., 3, p. 180.)

(Discusses in detail the history, production, cultivation, gathering, and distillation of lavender in France, England, and Italy.)

The original was not available.

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Schimmel and Co.

1908

Lavender Oil.

Semi-Ann. Report, Apr., p. 62 (Ibid., Oct., 1911, p. 58; Proc. Am. Pharm. Assoc., 56, p. 328; Am. Perf. and Essent. Oil Rev., 3, p. 82.)

Discusses markets, Spanish lavender oils as a substitute and adulterant, influence of altitude, distillation, and water employed on the ester-content of lavender oils, with comments on other papers.

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Schimmel and Co.

1908

Lavender Oil.

Semi-Ann. Report, Nov., p. 74 (Ibid., Apr., 1900, p. 61; Ibid., Apr., 1909, p. 61; Ibid., Apr., 1912, p. 86; Proc. Am. Pharm. Assoc., 57, p. 173.)

Discuss crops and prices and a paper by H.L. Visser on the examination of Lavender oils.

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## (Oleum Lavandulae.)

Pharm. Weekbl., 45, p.---(Schimmel and Co., Semi-Ann. Report, Nov., 1908, p. 80; Pharm. Ztg., 53, p. 879; Proc. Am. Pharm. Assoc., 57, p. 319.)

(Criticizes the requirements which the Netherlands Pharmacopoeia specifies for oil of lavender and by means of the results of his own investigations, points out the difficulty of complying with the official requirements.)

The original was not available.

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La Lavande: Variétés, Production, Vices de la distillation Actuelle, Comment assurer l'avenue.

Bull. Sci. Pharmacol., 16, p. 92 (La Parfum. Moderne, 1, p. 3; Schimmel and Co., Semi-Ann. Report, Apr., 1909, p. 62; Drugg. Circ., 53, p. 228.)

Discusses the cultivation, varieties, methods of production of lavender, constituents, distillation, and the future of oil of lavender in France.

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("P. J." Representative.)

A Dorsetshire Lavender Farm.

Pharm. Journ., 83, p. 532 (Gildemeister and Hoffmann, Die Aetherischen Oele, 2 ed., v. 3, p. 434.)

Gives the particulars about the starting of the gardens, the plants cultivated there, the 4 varieties of lavender cultivated, and data about the oil of lavender, perfumes, and 4 photographs of buildings, etc., on this farm.

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Schimmel and Co.

1909

Lavender Oil.

Semi-Ann. Report, Apr., p. 60 (Ibid., Apr., 1912, p. 86.)

Report commercial conditions, give several men's opinions as to examination of lavender oil, renewed interest of various districts, with their output of oil of lavender.

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Schimmel And Co.

1909

Lavender Oil.

Semi-Ann. Report, Oct., p. 73 (Ibid., Apr., 1910, p. 73)

Give data on the crop, prices, market, and on an oil of lavender from a new plant.

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Visser, H. L.

1909

(Oleum Lavandulae.)

Pharm. Weekblad., 46, p. 39 (Schimmel and Co., Semi-Ann. Report, Apr., 1909, p. 61.)

(States that his researches show that lavender oils occur in the wholesale trade which do not satisfy the Dutch Pharmacopoeia requirements.)

The original was not available.

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(Editor.)

1910

English Lavender Oil.

Perf. and Essent. Oil Rec., 1, p. 142.

Mentions the preparation of a concrete extract of lavender by Stafford Allen and Sons, Limited, which is used in the preparation of lavender water.

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Elze, F.

1910

Nerol und Thymol in französischen Lavendelöl.

Chem. Zeit., 34, p. 1029 (Perf. and Essent. Oil Rec., 1, p. 280; Ibid., 7, p. 50; Schimmel and Co., Semi-Ann. Report, Apr., 1911, p. 77; Ibid., Oct., 1915, p. 28; Proc. Am. Pharm. Assoc., 59, p. 381; Tschirch, Handbuch d. Pharmakogn., 2, p. 830.)

Discusses the isolation of nerol and thymol from French oil of lavender as normal constituents.

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Gilbey, W.

1910

Lavender and Mint Growing.

Perf. and Essent. Oil Rec., 1, p. 6.

Discusses the methods of cultivating lavender and peppermint as it is done at Elsenham, England.

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Gilbey, W.

1910

Lavender and Mint Growing.

Perf. and Essent. Oil Rec., 1, p. 219.

Discusses the crop results of lavender and peppermint for the past season at Elsenham, England.

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Gildemeister, E. and Hoffmann, F.

1910

Chemische Prüfungsmethoden.

Die Aetherischen Oele, 2 ed., v. 1, p. 587 (Journ. de Pharm. et Chim., s. 8, 10, p. 200.)

Discusses the chemical methods of testing volatile oils, including oil of lavender.

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Lamothe, L.

1910

Lavender Oil.

Chem. and Drugg., 76, p. 151 (Proc. Am. Pharm. Assoc., 58, p. 181.)

Describes the varieties of lavender and spike oils produced in the district of Grand - Serre (Drôme), France.

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Martindale, W. H.

1910

Essential Oils in Relation to their Antiseptic Powers.

Perf. and Essent. Oil Rec., 1, p. 267 (Ibid., 9, p. 192.)

Discusses the antiseptic powers of the various essential oils, including oil of lavender, as determined by their phenol co-efficients, includes 2 illustrations and 2 tables.

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von Rechenberg, C.

1910

Oleum Lavandulae.

Theorie der Gewinnung und Trennung der Ätherischen Öle durch Destillation, p. 293 (Schimmel and Co., Semi-Ann. Report, Oct., 1911, p. 59.)

(Applies the name of "water - and - steam distillation" to a method which is most suitable for itinerant stills, especially for lavender oil.)

The original was not available.

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Schimmel and Co.

1910

Lavender Oil.

Semi-Ann. Report, Apr., p. 72.

Give market conditions and the names of the lavender plants used in the east as medicinal agents and perfumes.

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Lavender Oil

Semi-Ann. Report, Oct., p. 74 ( Proc. Am. Pharm. Assoc., 59, p. 190.)

Give data about the crops and specific data about conditions in each producer's department, summarizes an article on lavender oil from the Times, as to cultivation and varieties.

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Shears, J. C.

1910

Peppermint and Lavender Oil Distillation.

Perf. and Essent. Oil Rec., 1, p. 96 (Gildemeister and Hoffmann, Die Aetherischen Oele, 2 ed., v. 3, p. 434.)

Gives a complete description of a new form of a distilling plant and processes of distillation, and its advantages for oil of lavender.

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(Editor.)

1911

A Dissertation on Distillation  
The "Allen" age.

Perf. and Essent. Oil Rec., v. 2, p. 231 (Gildemeister and Hoffmann, Die Aetherischen Oele, 2 ed., v. 3, p.434.)

Gives 2 illustrations of lavender fields, general review of the Allen Farms, and products with 10 illustrations.

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(Editor.)

1911

Commercial Review of Lavender.

Perf. and Essent. Oil Rec., v. 2, p. 239 (Gildemeister and Hoffmann, Die Aetherischen Oele, 2 ed., v. 3, p. 239.)

The crop is 25% below the last year's and the product is not as good.

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(Editor.)

1911

-French Lavender Oil.

Perf. and Essent. Oil Rec., 2, p. 223.

Discusses ester content as a means of determining value of oil of lavender.

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Izzard, P. W. A.

1911

(Sweet Lavender.)

Daily Mail, July, 29, 1911, p.--(Perf. and Essent. Oil Rec., 2, p. 177.)

(Discusses the harvesting of lavender and the distillation of oil of lavender with references to Elsenham, England.)

The original was not available.

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Lamothe, L.

1911

(Oleum Lavandulae.)

Rev. de Grasse, 54, No. 24, p.-- (Schimmel and Co., Semi-Ann. Report, Oct., 1911, p. 58.)

(A report on lavender and its distillation, especially the adoption of new methods.)

The original was not available.

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Schimmel and Co.

1911

Lavender Oil.

Semi-Ann. Report, Apr., p. 77 (Ibid., Oct., 1911, p. 56; Proc. Am. Pharm. Assoc., 59, p. 381.)

Summarizes crops, prices, markets, and discusses the properties of thymol and nerol, recently isolated from a French lavender oil.

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Lavender Oil.

Semi-Ann. Report, Oct., p. 56 (Ibid., Apr., 1912, p. 86;  
Yrbk. Am. Pharm. Assoc., 3, p. 425.)

States the existing conditions as to crops, markets, prices, and shortage of labor in the various producing departments; gives analytical data of a sample of lavender oil; and summarizes a paper on lavender and its distillation.

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1911

(Lavender 's For Ladies.

Punch,--, p.-- (Perf. and Essent. Oil Rec., 2, p. 226.)

The author of the abstract questions the scientific accuracy of the poem "Lavender 's For Ladies" as to the time of harvesting lavender and the migration of the sparrows.

The original was not available.

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1911

(Oleum Lavandulae.)

Journ. Board Agric., U.K., 18, p. 566 (Bull. Imperial Inst., 9, p. 401; Schimmel and Co., Semi-Ann. Report, Apr., 1912, p. 88.)

(An article on lavender - growing in England.)

The original was not available.

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1911

(          )  
(Oleum Lavandulae.)

Parfum. moderne, 4, p. 47 (Schimmel and Co., Semi-Ann. Report, Oct., 1911, p. 58.)

(A general article on lavender-growing.)

The original was not available.

1912

Brewis, E. T. and Umney, J. C.

English Lavender Oil.

Perf. and Essent. Oil Rec., 3, pp. 5 & 59 (Schimmel and Co., Semi-Ann. Report, Apr., 1912, p. 88; Pharm. Journ., 89, p. 289; Yrbk. Am. Pharm. Assoc., 1, p. 335; Drugg. Circ., 56, p. 318.)

Discuss changes occurring in oil of lavender during storage due to water remaining in the oil, and include a chart which tabulates the results.

1912

Delphin, T.

Et nytt förfalskningswedel för lavendelolja.

Svensk. Farm. Tidskrift, 16, p. 69 (Pharm. Ztg., 57, p. 272; Yrbk. Am. Pharm. Assoc., 1, p. 334; Schimmel and Co., Semi-Ann. Report, Apr., 1912, p. 85; Perf. and Essent. Oil Rec., 3, p. 129.)

Discusses the phthalic acid ester as an adulterant of oil of lavender.

1912

Dodge, F. D.

(Oleum Lavandulae.)

Rept. 8th Int. Cong. Ap. Chem., 6, p. 87 (Perf. and Essent. oil Rec., 23, p. 340.)

. (Reports finding cineol in French lavender oil upon oxidizing it in the cold with a saturated potassium permanganate solution.)

The original was not available.

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(Editor.)

1912

A Lavender Hybrid.

Perf. and Essent. Oil Rec., 3, p. 51.

Discusses "lavandin", a hybrid of lavender.

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(Editor.)

1912

New Season's French Lavender Oils.

Perf. and Essent. Oil Rec., 3, p. 263.

Discusses glyceryl acetate as an adulterant of oil of lavender.

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Knight, J.

1912

(Victorian Essential Oils.)

Journ. of Agri. of Victoria, --p., --(Chem and Drugg., 81, p. 369; Schimmel and Co., Semi-Ann. Report, Oct., 1912, p. 75.)

(Reports the improved results of attempts at cultivating lavender in the State of Victoria, Australia.)

The original was not available.

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Lamothe, L.

1912

(Oleum Lavandulae.)

Parfumerie Moderne, 5, p. 9 (Schimmel and Co., Semi-Ann. Report, Apr., 1912, p. 86; Yrbk. Am. Pharm. Assoc., 1, p. 166; Perf. and Essent. Oil Rec., 3, p. 51; Gildemeister and Hoffmann, Die Aetherischen Oele, 2 ed., v. 3, p. 427.)

(Discusses "lavandin", the result of a cross between lavender and spike.)

The original was not available.

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Miller, J. and G.

1912

English Lavender Oil.

Perf. and Essent. Oil Rec., 3, p. 39.

Give their experiences and observations regarding the storage of English oil of lavender.

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Provence, M.

1912

(Les Allemands en Provence.)

Les Quatre-Dauphins, ---, p. --- (Schimmel and Co., Semi-Ann. Report, Apr., 1913, p. 69.)

(Attempts to stir up animosity against the Schimmel works at Barrême among the population of the local lavender districts.)

The original was not available.

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Ransom, W. and Sons.

1912

English Lavender Oil.

Perf. and Essent. Oil Rec., 3, p. 39.

Record observations regarding the storage of oil of lavender.

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Schimmel and Co.

1912

Lavender Oil.

Semi-Ann. Report, Apr., p. 84 (Yrbk. Am. Pharm. Assoc.,  
1, p. 166.)

Give reports as to the crops and market;  
notes on 2 new lavender oil adulterants: coca-nut  
esters and phthallic acid; give character and properties  
of the hybrid lavandin; a report of changes oil under-  
goes under certain circumstances during storage, and a  
chart showing the effect when substances are added to  
oil of lavender.

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Schimmel and Co.

1912

Lavender Oil.

Semi-Ann. Report, Oct., p. 70.

Give data regarding weather and production of  
lavender; mention a business argument; give a table of  
data of several samples of lavender oil; and include 1  
picture of a lavender distillery at Castellane.

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1912

(Oleum Lavandulae.)

Seifensieder Ztg., 25, p. 744 (Schimmel and Co., Semi-  
Ann. Report, Oct., 1912, p. 72.)

(A critical review of "Un Montagnard.")

The original was not available.

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1912

(Victorian Lavender Oil.)

Journ. of Agri. of Victoria, --, p. --- (Perf. and Essent.  
oil Rec., 3, p. 331.)

(Discusses the planting and harvesting of lavender and the yield and testing of the oil of lavender produced in Victoria, Australia, and includes 4 illustrations.)

The original was not available.

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(Editor.)

1913

Analytical Notes.

Perf. and Essent. Oil Rec., 4, pp. 134 & 153 (Schimmel and Co., Semi-Ann. Report, Oct., 1913, p. 68.)

A description of a lavender oil distilled at Barreme and of a Dalmatian lavender oil from plants grown on Island of Comisa.

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(Editor.)

1913

Barreme Lavender Oil.

Perf. and Essent. Oil Rec., 4, pp. 96 & 134.

Gives the characteristics of samples of oil of lavender from Barreme.

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(Editor.)

1913

High Ester Lavender Oil.

Perf. and Essent. Oil Rec., 4, p. 153.

Gives the characteristics of a sample of oil of lavender from the Island of Comisa.

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(Editor.)

1913

Hitchin Lavender.

Chem. and Drugg., 82, p. 399 (Gildemeister and Hoffmann, Die Aetherischen Oele, 2 ed., v. 3, p. 399.)

Extract from a C.&D. of 1863, p. 334, saying that lavender plant thrives better on English soil than on any other and that soil at Hitchin is especially suited. Photograph of 1913, showing that oil of lavender is still cultivated at Hitchin.

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Jakson, J. and Co.

1913

Surrey Lavender and Peppermint.

Perf. and Essent. Oil Rec., 4, p. 345 (Ibid., 5, p. 103.)

Give the history of the John Jakson and Co. and the methods of distillation of oil of lavender, including 6 progressive illustrations of lavender in the fields until it is distilled.

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Schimmel And Co.

1913

Lavender Oil.

Semi-Ann. Report, Apr., p. 69 (Yrbk. Am. Pharm. Assoc., 2, p. 363.)

Discuss crops, markets, adulterations, presence of caryophyllene in lavender oil and an abstract of 1 article.

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Schimmel and Co.

1913

Lavender Oil.

Semi-Ann. Report, Oct., p. 67.

A summary of crops, markets, and abstracts of 2 articles.

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Zaccharewicz, \_\_\_\_.

1913

. (Oleum Lavandulae.)

Petite Revue Horticole et Agricole, ---. p.--- (Rev. de Grasse, No. 13, p. 2; Schimmel and Co. Semi-Ann. Report, Oct., 1913, p. 68.)

(Advocates the cultivation of lavender, and gives a brief summary of the costs and the return of such an undertaking.)

The original was not available.

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Bristow, J. C.

1914

(Sweet Lavander.)

The Lady of the House, ---., p.--- (Perf. and Essent. Oil Rec., 5, p. 348.)

(Discusses the cultivation and distillation of lavender, and gives a formula for and uses of lavender water, and includes 3 illustrations.)

The original was not available.

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(Editor.)

1914

A Little Knowledge Is a Dangerous Thing.

Perf. and Essent. Oil Rec., 5, p. 277.

Corrects inaccurate statements by \_\_\_\_\_ found in My Garden Illustrated concerning lavender species and the prices of oil of lavender.

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(Editor.)

1914

A New Lavender Oil.

Am. Perf. and Essent. Oil Rev., 9, p. 59.

Gives the characteristics of samples of lavender oil obtained from the flowers of *Lavandula Burmanni*, obtained from the Indian Institute of Science at Bangalore, India.

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(Editor.)

1914

Effects of Lavender Distilling Changes.

Perf. and Essent. Oil Rec., 5, pp. 103 & 264.

Discusses the effects of distilling changes on the solubility of oil of lavender.

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(Editor.)

1914

High Ester Lavender Oil.

Perf. and Essent. Oil Rec., 5, p. 130 (Schimmel and Co., Semi-Ann. Report, Oct., 1914/Apr. 1915, p. 28.)

Gives data about a new lavender oil with an exceedingly high ester content.

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(Editor.)

1914

High Ester Lavender Oil.

Perf. and Essent. Oil Rec., 5, p. 130.

Gives the characteristics of a sample of Oil of Lavender from Dalmatia.

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(Editor.)

1914

Poetic License and Scientific Accuracy.

Perf. and Essent. Oil Rec., 5, p. 102.

Submits a modified but more accurate version of the poem "Lavender's For Ladies" which appeared in Punch, October, 1911.

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(Editor.)

1914

Solubility of Lavender Oil.

Perf. and Essent. Oil Rec., 5, p. 264 (Schimmel and Co.,  
Semi-Ann. Report, Oct., 1914/Apr., 1915, p. 28.)

Discusses the increase in solubility of oil of lavender, the cause is due to the floral wax being carried over by more rapid distillation.

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Dodge, F. D.

1914

Notes on the Analysis of Some  
Essential Oils.

Journ. Am. Pharm. Assoc., 3, p. 1667 (Yrbk. Am. Pharm.  
Assoc., 3, p. 425.)

Gives various methods for the examination of the ester content of oil of lavender and several examples of tests carried out.

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Francois, J. G. R.

1914

Solubility of Lavender Oils.

Perf. and Essent. Oil Rec., 5, p. 147 (Schimmel and Co.,  
Semi-Ann. Report, Oct., 1914/Apr., 1915, p. 29.)

Discusses the reasons for the lavender oils produced by means of dry steam distillation of being much less readily soluble than those obtained by distillation with water.

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Francois, J. G. R.

1914

Solubility of Lavender Oils.

Perf. and Essent. Oil Rec., 5, pp. 147 & 264.

Suggests a change in the solubility standards of oil of lavender and advises that the purity of oil of lavender should not be judged by its solubility.

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Schimmel and Co.

1914

Lavender Oil.

Semi-Ann. Report, Apr., p. 66.

Mention the crops, prices, and the fact that new methods of steam distillation are being put into use.

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Schimmel and Co.

1914 & 1915

Lavender Oil.

Semi-Ann. Report, Oct. & Apr., p. 28.

Discuss the lower solubility of lavender oils obtained by dry steam distillation, mention a new lavender oil of very high ester percentage from Comisa, and give extracts from 2 articles.

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(Editor.)

1915

English Lavender and Peppermint Oils.

Perf. and Essent. Oil Rec., 6, p. 314.

Gives the characteristics of 2 samples of English Lavender Oil and of 1 sample of English peppermint Oil.

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(Editor.)

1915

Solubility of Lavender Oil.

Perf. and Essent. Oil Rec., 6, p. 314 (Am. Perf. and Essent. Oil Rev., 10, p. 251.)

States that the purity of lavender oil cannot be judged by its solubility in alcohol.

---

(Editor.)

1915

The Quality of Lavender Water.

Perf. and Essent. Oil Rec., 6, p. 277.

The quality of lavender water is a comparatively small criterion of the quality of the lavender oil in it.

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Schimmel and Co.

1915

Lavender Oil.

Semi-Ann. Report, Oct., p. 25 (Perf. and Essent. Oil Rec., 7, p. 50.)

Abstracts of several articles and discuss the presence of thymol in lavender oil.

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Schimmel and Co.

1915

(Oleum Lavandulae.)

Parfumerie-Zeitung, 1, p. 8 (Schimmel and Co., Semi-Ann. Report, Oct., 1915, p. 26.)

(An answer to the article "Lavender Robbers!")

The original was not available.

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( )

1915

(Lavender Robbers.)

Berliner Tageblatt, Feb., 15, No. 84, p.--(Schimmel and Co. Semi-Ann. Report, Oct., 1915, p. 25.)

(Urges the French to try to keep the lavender oil business rather than to permit the German to invade and acquire it.)

The original was not available.

---

Brierley, W. B.

1916

(Oleum Lavandulae.)

Kew Bull., No. 5, p. 113 (Pharm. Journ., 97, p. 85; Schimmel and Co., Semi-Ann. Report, Apr./Oct., 1917, p. 27; Yrbk. Am. Pharm. Assoc., 5, p. 202; Perf. and Essent. Oil Rec., 21, p. 7.)

(Discusses the characteristics and the prevalence of "phoma", a disease of lavender.)

The original was not available.

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(Editor.)

1916

The Scarcity of Bergamotte and Lavender Oils.

Perf. and Essent. Oil Rec., 7, p. 294.

Discusses the scarcity of bergamot and lavender oils.

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Forgnes, \_\_\_\_\_.

1916

(Lavender for Gangrene.)

La Parf. Mod., --, p.-- (Perf. and Essent. Oil Rec., 7, p. 105.)

(Discusses the use of terpeneless lavender oil as an antiseptic in all forms of wounds, clean or gangrenous.)

The original was not available.

---

Gattefosse', R. M.

1916

(Lavender in 1916.)

Parf. Mod., --, p.-- (Perf. and Essent. Oil Rec., 7, p. 305.)

(Compares the yields of cultivated and wild lavender in France in 1916 and includes 2 illustrations.)

The original was not available.

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Hesse, A. and Grossmann, H.

1916

(Oleum Lavandulae.)

Dokument zu Englands Handelskrieg, p.--(Le Reveil National Lyons, Aug. 8th, 1916; Chem. Industrie, 40, p.--, Supp. no. 24, p. 1120; Schimmel and Co., Semi-Ann. Report, Apr./Oct., 1917, p. 23.)

(Discuss lavender oil at the Lyons and Leipzig fairs with special reference to the great interest it has for Schimmel's branch industry.)

The original was not available.

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Maure, P.

1916

(Oleum Lavandulae.)

Parfum Moderne, 9, p. 121 (Schimmel and Co., Semi-Ann. Report, Apr./ Oct., 1917, p. 26.)

(Records the good results of cultivation of lavender in Southern France.)

The original was not available.

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Van der Wielen, P.

1916

Spiritus Lavandulae als Reukcorrigens.

Pharm. Weekblad, 53, p. 872 (Schimmel and Co., Semi-Ann. Report, Apr./Oct., 1917, p. 27.)

The best method of preparation of lavender oil is obtained by distilling fresh blossoms with spirits of wine.

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1916

Vivaudon, V.

Lavender Culture in England and France.

Pharm. Era, 49, p. 223 (Yrbk. Am. Pharm. Assoc., 5, p. 201.)

Discusses the sources, plants, cultivation, environment, methods of distillation, and the adulteration of oil of lavender.

1916

( )  
(Oleum Lavandulae.)

Deutsche Parfumerie-Zeitung, 2, p. 333 (Schimmel and Co., Semi-Ann. Report, Apr./Oct., 1917, p. 24.)

(Attempts to clear up the controversy between the Germans and the French regarding oil of Lavender.)

The original was not available.

1917

Augier, P.

(Lavender and Other Plants in France.)

Parf. Mod., --, p. -- (Perf. and Essent. Oil Rec., 8, p. 81.)

(Advises the cultivation of plants at the altitude at which they grow best, for example, lavender grows best in the mountain regions, includes 4 illustrations.)

The original was not available.

1917

Schimmel and Co.

Lavender Oil.

Semi-Ann. Report, Apr./Oct., p. 23.

Give abstracts of 2 articles, discuss the cultivation of lavender in South of France, and the disease "phoma".

Tschirch, A.

1917

Flos Lavandulae und Oleum Lavandulae.

Handbuch der Pharmakogn., 1 ed., p. 823.

Discusses lavender and its oil under the following heads: synonyms, origin and history of plant, morphology and anatomy, distillation of the oil, chemistry, characteristics of the oil of lavender, and other species of lavender including history and 4 illustrations.

( )

1917

Lavender Water.

Drugg. Circ., 61, p. 638.

Gives a formula for lavender water containing Oil of Lavender.

( )

1917

(Oleum Lavandulae.)

La Parfumerie Modern, --, p. -- (Schimmel and Co., Semi-Ann. Report, Apr./Oct., 1918, p. 32.)

(Discusses the French lavender industry, including a picture of the factory at Barreme.)

The original was not available.

Cavel, L.

1918

Sur la valeur antiseptique de quelques huiles essentielles.

Comptes Rend., 166, p. 827 (Perf. and Essent. Oil Rec., 9, p. 192.)

Discusses his experiments on the antiseptic value of essential oils, including oil of lavender.

(Editor.)

1918

Antiseptic Value of Lavender Oil.

Perf. and Essent. Oil Rec., 9, p. 192.

Discusses the use of oil of lavender as a disinfectant and refers to other articles on this subject.

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(Editor.)

1918

Roure Bertrand Fils.

Perfum. Record, 9, p. 78 (Schimmel and Co., Semi-Ann. Report, Apr./ Oct., p. 32.)

Speaks of the Grasse firm negotiating with the French government with the aim of taking over the Barreme distillery.

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Parry, E. J.

1918

Labiatae.

The Chem. of Essential Oils, 3 ed., v. 1, p. 186.

Gives the O. E. T., production, distribution of lavender in France, quality, environment, contrast of lavender and spike, cultivation, hybrids "lavandin", properties, tests, English lavender oil, and constituents of lavender oil.

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Remington, J. P., Wood, H. C., Sadtler, S. P.,  
LaWall, C. H., Kraemer, H., and Anderson, J. F.

1918

Oleum Lavandulae.

Dispen., U.S. A., 20 ed., p. 767.

Gives the official definitions, official English title, official abbreviation, official synonyms, official preparations, preparations, properties, description, uses, and dose of oil of lavender and information about oil of spike.

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Schimmel and Co.

1918

Lavender Oil.

Semi-Ann. Report, Apr./Oct., p. 32.

Discuss the transactions of the Barrême distillery and mention "lavandin".

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(Editor.)

1919

The French Lavender Oil Situation.

Perf. and Essent. Oil Rec., 10, p. 52.

Discusses the character and cause of the pronounced upward movement in the price of French oil of lavender this season.

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Gattefosse, R. M.

1919

Lavender Crop.

Perf. and Essent. Oil Rec., 10, p. 238 (Am. Perf. and Essent. Oil Rev., 14, p. 196.)

Reports on the lavender crop of this season in France and discusses the establishment of a new system of methodical planting and cultivation of lavender.

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Schimmel and Co.

1919

Lavender Oil.

Ann. Report, p. 34.

Gives the results of the examination of a lavender oil sent the company, and discuss the adulterants.

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( )  
 (Oleum Lavandulae.)

Rev. des produits Chim., 22, p. 647 (Schimmel and Co.,  
 Ann. Report, 1921, p. 28.)

(Explains the preparation of oil of lavender by  
 water distillation from plants grown in the mountains of  
 Morocco on the Atlas Mountains.)

The original was not available.

Cocking, T. T.

1920

Cresineol.

Perf. and Essent. Oil Rec., 11, p. 281 (Ibid., 23, p. 340.)

Discusses the use of cresineol, a new  
 cineol compound, in the estimation of cineol in  
 oils, including oil of lavender.

(Editor.)

1920

A Lavender Congress.

Perf. and Essent. Oil Rec., 11, p. 239.

Announces the meeting of a lavender  
 congress at Grasse, France, and gives the program.

(Editor.)

1920

Mitcham Lavender and Peppermint.

Perfum. Record, 11, p. 257 (Schimmel and Co., Ann.  
 Report, 1921, p. 27.)

Report on the crops, market, and prices  
 of Oil of Lavender.

(Editor.)

1920

Lavender Oil.

Am. Perf. and Essent. Oil Rev., 15, p. 348.

Reports the price situation of Oil of Lavender in France.

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(Editor.)

1920

The Lavender Congress.

Perf. and Essent. Oil Rec., 11, p. 275.

Reports the Lavender Congress, held at Grasse, France- a meeting of the practical planter, chemist, botanist, and other scientists interested in Lavender.

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(Editor.)

1920

The Lavender Congress.

Perf. and Essent. Oil Rec., 11, p. 297.

Discusses the results of the Lavender Congress, held recently at Grasse, France.

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Gattefosse, R. M.

1920

The Lavender Congress.

Chem. and Drugg., 93, p. 1286 (Yrbk. Am. Pharm. Assoc., 9, p. 296.)

Reports the Lavender Congress - a meeting of the practical planter, chemist, botanist, and other scientists, interested in Lavender.

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Humbert, A.

1920

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French Lavender and Its Oil.

Perf. and Essent. Oil Rec., 11, p. 251 (Schimmel and Co.,  
Ann. Report, 1921, p. 27.)

Discusses the distribution and yields of  
lavender, general data about lavender, "spike", and  
their hybrids, and gives a summary.

---

Schimmel and Co.

1920

Lavender Oil.

Ann. Report, p. 37. (Ibid., 1923, p. 48.)

Mention the continued high prices;  
detailed data on adulterations of oils from French  
factories and results obtained in their tests.

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( )

1920

Lavender Water.

Drugg. Circ., 64, p. 380.

Gives a formula for lavender water,  
containing oil of lavender.

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André, E.

1921

Sur l'indice d'acétyle des matières  
grasses.

Bull. Soc. Chim., s. 4, 29, p. 745 ( Journ. de Pharm.  
et Chim., s. 8, 10, p. 200.)

Gives an acetyl value for oil of lavender  
according to his formula.

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Cocking, T. T.

1921

(Oleum Lavandulae.)

Perf. and Essent. Oil Rec., 12, p. 339 (Ibid., 23, p. 340.)

(Discusses the application of the ortho-cresol method for the determination of cineol in French oil of lavender.)

The original was not available.

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Gattefosse, R.

1921

Distillation of Oil of Lavender.

Pharm. Era, 54, p. 162 (Yrbk. Am. Pharm. Assoc., 10, p. 383.)

Describes a method for the recovery of the oil which remains in the aqueous portion of the distillate on distilling lavender flowers.

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Marchand, J.

1921

(Oleum Lavandulae.)

Perf. and Essent. Oil Rec., ---, p. ---, (Am. Drugg., 69, p. 43; Yrbk. Am. Pharm. Assoc., 10, p. 384.)

(Discusses the use of oil of lavender for the treatment of sores, ulcers, scalds, and burns alone or as a dressing, the results being remarkable.)

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Schimmel and Co.

1921

Lavender Oil, French.

Annual Report, 1921, p. 27.

Mention the decline in prices, diminished cultivation near Mitcham, extension of cultivation in France, the centers of production, effects of climate and season on quality and quantity of oil, and adulteration of the lavender oils tested.

---

Schimmel and Co.

1921

Lavender Oil, Italian.

Ann. Report, 1921, p. 29.

Discuss the properties and characteristics of Italian Oil of Lavender.

( )

1921

(Oleum Lavandulae.)

Parfum. Moderne, 14, p. 153 (Schimmel and Co., Ann. Report, 1922, p. 44.)

(Suggestions and propositions made by lavender growers, merchants, and industrials at the meeting of the Lavender Commission.)

The original was not available.

(Editor.)

1922

Some Difficulties of the French Lavender Industry.

Parfum. Record, 13, p. 289 (Schimmel and Co., Ann. Report, 1923, p. 47.)

Discusses the ever increasing cost of production, scarcity of labor, business difficulties, and helpful suggestions to improve the existing conditions.

(Editor.)

1922

The Lavender Fair at Digne.

Am. Perf. and Essent. Oil Rev., 17, p. 388.

Describes the Lavender Fair held at Digne in France.

Gildemeister, E. and Hoffmann, F.

1922

Oil of Lavender.

Die Aetherischen Oele, 2 ed., v. 3, p. 421 (Perf. and Essent. Oil Rec., 18, p. 8; Ibid., 18, p. 48.)

Gives official titles, origin, production, development of the oil in the plant, distribution of lavender in Southern France, production, cultivation, production of Lavender in England, properties, composition, examination, and evaluation, plus a map showing production districts in Southern France, and pictures of the distillation of the oil in different sections.

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Guigne, J.

1922

(The Price of French Lavender.)

Bull. of Syndicate of Producers of Lavender Flowers and Oil, March, p.-- (Perf. and Essent. Oil Rec., 13, p. 109.)

(Discusses the views of some producers of lavender on its price under the following heads: a reasonable price, price of the plant, cost of cultivation and transport, cost of distillation and general expenses, the total cost of production, and importance of the harvest.)

The original was not available.

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Schimmel and Co.

1922

Lavender Oil.

Ann. Report, p. 41, (Ibid., 1924, p. 56; Yrbk. Am. Pharm. Assoc., 11, p. 313; Pharm. Ztg., 67, p. 612.)

Discuss the prices of oil, wages of collectors, costs of upkeep, distillation, and general expenses; give figures of an investigation on the differences presented by lavender oils obtained by open fire and steam distillation; whether the quality of a lavender oil depends on its ester content, information as to the distillation, composition, analysis, adulteration for best lavender oils, and different species and varieties of lavender.

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1922

(Oleum Lavandulae.)

Perfumer's Journ. and Essent. Oil Record, 3, p. 12  
(Schimmel and Co., Ann. Report, 1923, p. 49.)

(Reports the adulteration of lavender oil  
with ethyl esters of the fatty acids of coconut oil.)

The original was not available.

1923

Hoare, A. H.

(Oleum Lavandulae.)

Journal of the Ministry of Agriculture and Fisheries,  
-- , p. -- (Parfum.Record, 15, p. 3; Schimmel and Co.,  
Ann. Report, 1925, p. 49.)

(Gives history of lavender in England,  
principal centers, methods of distillation, and  
differences from French lavender oil.)

The original was not available.

1923

Koch, F. J.

The Whence of the Lavender.

Am. Drugg., 71, February, p. 20 (Yrbk. Am. Pharm.  
Assoc., 12, p. 104.)

Gives the botanical source, parts used,  
and uses of lavender.

1923

Pellini, C. and Morani, V.

(Les Essences Sicile.)

Riv. Ital. Ess. Profumi, 5, p. 119 (Chim. et Ind., 12,  
p. 318; Chem. Abstr., 18, p. 3682; Yrbk. Am. Pharm.  
Assoc., 13, p. 280.)

(Lists the properties of 2 samples of oil from lavender heads in full bloom and of 3 samples from plants at the beginning, middle, and end of blooming periods.)

The original was not available.

---

Schimmel and Co.

1923

Lavender Oil.

Ann. Report, 1923, p. 47 (Ibid., 1924, p. 56.)

Mention the harvest, prices, and wages; detail a new lavender plant from Hungary; mention new adulterations of lavender oil, and a terpene-free lavender oil.

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Chiris, A.

1924

(Oleum Lavandulae.)

Les Parfums de France, 2, p. 262 (Schimmel and Co., Ann. Report, 1925, p. 50; Yrbk. Am. Pharm. Assoc., 13, p. 279.)

(Discusses the determination of the proportion of free alcohol and of alcohol in combination in several samples of authentic lavender oil.)

The original was not available.

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(Editor.)

1924

French Lavender Production.

Am. Perf. and Essent. Oil Rev., 18, p. 600.

Gives data concerning the production of lavender in France.

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Mourre, C.

1924

La Lavande Francais.

Chimie et Industrie, 12, p. 317 (Schimmel and Co.,  
Ann. Report, 1925, p. 49.)

Gives the cost of production, constituents,  
physical constants, adulterants, and the evaluation of  
French lavender oil.

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Rovesti, P.

1924

(Oleum Lavandulae.)

Profumi, italice, 2, p. 45 (Schimmel and Co., Ann.  
Report, 1925, p. 49.)

(Recommends cultivation and manufacture  
of products of oil of lavender in Italy and gives 3  
methods of propagation.)

The original was not available.

---

Schimmel and Co.

1924

Lavender Oil.

Ann. Report, 1924, p. 56.

Give a census of the areas in France; the  
working conditions to be observed in the cultivation of  
lavender in Southern France; experiments in the  
cultivation of lavender; varieties of lavender; occurrence  
of "clover convolvulus" in lavender fields; description of  
the oil from Sicily; a scheme for a large establishment for  
distillation of lavender with little labor and good yield  
of best quality oil; and adulterated oil of lavender.

---

Bertoye, A.

1925

Essence Yielding Plants on the  
Brittany Coast.

Perfume Record, 16, p. 379 (Schimmel and Co., Ann.,  
Report, 1926, p. 66.)

Gives the various characteristics of lavender and reports on experiments in the cultivation of lavender of the "delphinensis" variety on the northern side of Lorre, France.

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Casarets, \_\_\_\_\_.

1925

. (Oleum Lavandulae.)

Profumi Italici, 3, p. 199 (Schimmel and Co., Ann. Report, 1926, p. 68.)

(An illustrated article on the distillation of lavender in Italy, with a map of centers of distillation, and mentions faulty practices.)

The original was not available.

---

Charpentier, C. A.

1925

The French Lavender and Jasmin Outturn.

Perf. and Essent. Oil rec., 16, p. 352.

Urges buyers to order oil of lavender early on account of the low yield.

---

(Editor.)

1925

Tasmanian Lavender Oil.

Perf. and Essent. Oil Rec., 16, p. 201.

Describes and pictures a display of lavender blooms and oil distilled from them in Tasmania.

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Goulding, E. and Roberts, O. D. 1925  
New Oils.

Perf. and Essent. Oil Rec., 16, p. 385.

Call attention to a new lavender oil  
from Cyprus, classed as high-grade spike oil.

---

Lamothe, L. 1925

(Oleum Lavandulae.)

Parf. Moderne, 18, p. 103 (Schimmel and Co., Ann.  
Report, 1926, p. 66.)

(Gives his opinion with reasons, that  
lavender is harvested too late in the South of  
France.)

The original was not available.

---

Montet, J. H. 1925

The French Lavender and Jasmin Outturn.

Perf. and Essent. Oil Rec., 16, p. 352.

Gives his views on this year's  
lavender and jasmin crops, the probable output  
of the oils, and the course which the prices are  
likely to pursue.

---

Rovesti, P. 1925

(Oleum Lavandulae.)

Profumi italici, 3, p. 199 (Schimmel and Co.,  
Ann. Report, 1926, p. 68.)

(Gives the properties of authentic  
Italian lavender oils, based on data obtained from  
tests of samples.)

The original was not available.

---

Rovesti, P.

1925

(Oleum Lavandulae.)

Profum. italici, 3, pp. 208-222 (Yrbk. Am. Pharm. Assoc., 15, p. 280.)

(Gives the results of the analysis of 3 samples of English oil of lavender.)

The original was not available.

---

Schimmel and Co.

1925

Lavender Oil.

Ann. Report, 1925, p. 48.

Give the output and crop information, account of the decay in the roots of lavender, and abstracts of articles by 3 other authors.

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Arthaud, R.

1926

(Oleum Lavandulae.)

Revue des Marques de la Parf. et de la Sav., 4, p. 554 (Schimmel and Co., Ann. Report, 1927, p. 68.)

(Mentions the most prominent lavender producing districts of France.)

The original was not available.

---

Bennett, C. T.

1926

The Linalyl Ester of Lavender Oil.

Perf. and Essent. Oil Rec., 17, p. 476.

Gives his opinion on the ester content of oil of lavender.

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Chiris, A.

1926

(Oleum Lavandulae.)

Les Parfums de France, 4, p. 314 (Schimmel and Co.,  
Ann. Report, 1927, p. 67.)

(Gives details about the production of lavender oil in France in 1926 and reasons; mentions the intention of establishment of cooperative societies for stabilization of the price of oil of lavender.)

The original was not available.

---

Chiris, A.

1926

(Oleum Lavandulae.)

Les Parfums de France, 4, p. 319 (Schimmel and Co.,  
Ann. Report, 1927, p. 68.)

(Reports experiments to produce "lavandin"- a hybrid by crossing lavender and spike.)

The original was not available.

---

Chiris, A.

1926

(Oleum Lavandulae.)

Les Parfums de France, 4, p. 358 (Schimmel and Co.,  
Ann. Report, 1927, p. 69; J. Pharm. Belge, 9, p. 23;  
Yrbk. Am. Pharm. Assoc., 15, p. 281; Perf. and Essent.  
Oil Rec., 18, pp. 47 & 48; Ibid., 18, p. 418;  
Am. Perf. and Essent. Oil Rev., 22, p. 500.)

(Gives analyse of two samples of lavender oil- proving that the principal constituents were acetates.)

The original was not available.

---

Dalton, W. G.

1926

The Linalyl Ester of Lavender Oil.

Perf. and Essent. Oil Rec., 17, p. 476.

Discusses his investigations relative to the ester content of oil of lavender.

---

Dalton, W. G.

1926

Some Examples of Modern Adulteration.

Perf. and Essent. Oil Rec., 17, p. 432 (Schimmel and Co., Ann. Report, 1927, p. 69.)

Discusses adulterants of various oils, including acetic esters as adulterants of oil of lavender.

---

Dupont, J. and Labaune, L.

1926

(Oleum Lavandulae.)

Rev. des Marques de las Parf. et de la Sav., 4, p. 609 (Schimmel and Co., Ann. Report, 1927, p. 69.)

(Report on the identification of acetic ester in a sample of oil of lavender.)

The original was not available.

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(Editor.)

1926

(The Linalyl Ester of Lavender Oil.)

La Parf. Mad., --, p. -- (Perf. and Essent. Oil Rec., 17, p. 477; Am. Perf. and Essent. Oil Rev., 22, p. 500.)

(Discusses tests which determine the quality of the oil of lavender tested.)

The original was not available.

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Longlais, P. and Goby, J.

1926

Indentification of the Acetic  
Ester in Lavender Oil.

Perfum. Record, 17, p. 520 (Ibid., 18, pp. 8 & 418;  
Schimmel and Co., Ann. Report, 1927, p. 69; Am.  
Perf. and Essent. Oil Rev., 21, p. 681; Ibid.,  
22, p. 500.)

Give a detailed report on the  
identification of acetic ester in lavender oil,-  
the principle of the method and identification  
of the acid.

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Reilly, J., Drum, P. J., and Boyle, C.

1926

The Production of Essential Oils  
from Irish Grown Plants.

Economic Proceedings of the Royal Dublin Society,  
2, p. 273 (Perfum. Record, 17, p. 212; Schimmel and  
Co., Ann. Report, 1927, p. 68; Pharm. Journ, 117,  
p. 329; Yrbk. Am. Pharm. Assoc., 15, p. 280.)

Report on the oil produced from species  
of lavender grown in Ireland which resembled the  
character of English oil including varieties of  
lavender plants, cultivation, care of crop, diseases  
and pests, distillation and evaluation of the oil,  
economics of lavender growing, characteristics of  
English, French, and Spanish oils, physical  
constants, chemical constants, and steam distillation  
of plants for oil of lavender.

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Schimmel and Co.,

1926

Lavender Oil.

Ann. Report, p. 66.

Give the harvest and yield for the season,  
report on adulterations of lavender oil, and refer to and  
give abstracts from 5 articles, with references.

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Slater, W. C.

1926

The Linalyl Ester of Lavender Oil.

Perf. and Essent. Oil Rec., 17, p. 476.

Gives his opinion about the ester content of the oil of lavender.

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Wood, H. C., LaWall, C. H., Younken, H. W.,  
Anderson, J. F., and Griffeth, I.

1926

Oleum Lavandulae.

Dispen., U. S. A., 21 ed., p. 762.

Give the official English title, official abbreviation, official definitions, botanical derivation, official synonyms, preparation, description and physical properties, uses, dosage, and official preparations of oil of lavender and information on oil of spike.

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1926

(Oleum Lavandulae.)

Parfum. Moderne, 19, pp. 149 & 170 (Schimmel and Co.,  
Ann. Report, 1927, p. 68; Am. Perf. and Essent. Oil  
Rev., 22, p. 500.)

(A special issue devoted to a description of the French lavender oil industry - mention that genuine lavender oil contains no linalyl acetate but principally linalyl butyrate.)

The original was not available.

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1926

(Oleum Lavandulae.)

Les Parfums de France, 4, p. 314 (Schimmel and Co.,  
Ann. Report, 1927, p. 67.)

(Give the 1926 production figures; mention the intention of the establishment of cooperative societies with the object of stabilizing the price of lavender oil and preventing speculative buying.)

The original was not available.

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Anonymous.

1927

Primitive Lavender Distillery in the Hautes - Alpes.

Chem. and Drugg., 107, p. 326 (Yrbk. Am. Pharm. Assoc., 16 & 17, p. 466.)

Gives a description, supplemented by an illustration, of a wayside lavender still.

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Chiris, A.

1927

French Lavender Oil : The Ester Question.

Perf. and Essent. Oil Rec., 18, p. 180.

Attempts to convince the public that oil of lavender contains acetic esters.

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Dalton, W. G.

1927

French Lavender Oil: The Ester Question.

Perf. and Essent. Oil Rec., 18, p. 135.

Explains his stand on the ester content of oil of lavender.

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(Editor.)

1927

Australian Lavender Oil.

Perf. and Essent. Oil Rec., 18, p. 350.

Reports the distillation of the first crop of lavender grown in western Australia.

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(Editor.)

1927

French Lavender Interests and  
Luxury Taxes.

Perf. and Essent. Oil Rec., 18, p. 474.

Gives the resolutions adopted by the 25 th congress of the Union of Syndicates of the Alps and Provence, when it met at Embrun in the department of Hautes Alpes regarding the rapid fluctuation of the prices of oil of lavender.

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Essential Oil Sub-Committee.

1927

The Estimation of Cineole in  
Essential Oils.

Analyst, 52, p. 276 (Perf. and Essent. Oil Rec., 23,  
p. 341.)

Gives the results of the analysis of French oil of lavender for its cineol content by the ortho-cresol method in the form of a table.

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Kaufmann, A. and Kjelsberg, F.

1927

(Oleum Lavandulae.)

Riechstoffind., 16, p. 170 (Chem. and Drugg., 107,  
p. 432; Yrbk. Am. Pharm. Assoc., 16 & 16, p. 464;  
Jahresbericht d. Pharm. 87, p. 143; Perf. and  
Essent. Oil Rec., 18, p. 418; Am. Perf. and Essent.  
Oil Rev., 22, p. 500.)

(Discuss linalylbutyrate and linalylacetate as constituents of oil of lavender, basing their observations on the gradual distillation of the oil.)

The original was not available.

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Kleber, C.

1927

Acetates in Oil of Lavender.

Am. Perf. and Essent. Oil Rev., 21, p. 680 (Perf. and Essent. Oil Rec., 18, p. 205; Chem. Abs., 21, p. 1689; Yrbk. Am. Pharm. Assoc., 16 & 17, p. 465.)

Presents his views regarding the presence or absence of acetates in oil of lavender and reports the identification of coumarin as a constituent of oil of lavender.

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Longlais, P. and Goby, J.

1927

French Lavender Oil.

Perf. and Essent. Oil Rec., 18, p. 47 (Pharm. Journ., 118, p. 449; Yrbk. Am. Pharm. Assoc., 16 & 17, p. 464; Chem. Abs., 21, p. 798.)

Discuss the esters contained in lavender oil, finding the 94% of the acid liberated from the sodium saponification salts consist of acetic acid, and give a method of identification of the acetic ester in lavender oil.

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Parry, E. J.

1927

French Oil of Lavender.

Perf. and Essent. Oil Rec., 18, p. 8 (Am. Perf. and Essent. Oil Rev., 22, p. 500.)

Believes that the predominating odor of oil of lavender is linalyl butyrate rather than linalyl acetate.

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Pfau, A.

1927

Constituents of Lavender Concrete.

Am. Perf. and Essent. Oil Rev., 22, p. 384.

Discusses the constituents of lavender concrete.

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Pfau, A. S.

1927

The Constituents of Lavender Concrete.

Perf. and Essent. Oil Rev., 18, p. 345 (Am. Perf. and Essent. Oil Rev., 22, p. 275.)

Affirms C. Kleber's identification of Coumarin as a constituent of oil of lavender.

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Reclaire, A.

1927

The Ester Question.

Perf. and Essent. Oil Rec., 18, p. 48.

Discusses the ester content of oil of lavender.

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Schimmel and Co.

1927

Lavender Oil.

Ann. Report, p. 67.

Discuss the season's output, yields, and market; mention "lavandin", adulterations; maintain the presence of acetic esters in lavender oil.

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Slater, Wm. C.

1927

Lavender Oil: The Esters Question.

Perf. and Essent. Oil Rec., 18, p. 102.

Comments on the present situation relative to the ester content of oil of lavender.

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Slater, W. C.

1927

French Lavender Oil: The Ester Question.

Perf. and Essent. Oil Rec., 18, p. 218.

Believes that the principal ester in oil of lavender is linalyl acetate.

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1927

(Oleum Lavandulae.)

Comm. and Ind. Gazette, South Africa, --, p. 84 (Perf. and Essent. Oil Rec., 26, p. 448.)

(Reports on a sample of oil of lavender produced in Cape Province and examined by the Government Analyst at Johannesburg.)

The original was not available.

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(Editor.)

1928

Esters in Lavender Oil.

Perf. and Essent. Oil Rec., 19, p. 174.

Reports on the ester content of oil of lavender, and states that it increases as producers use new distilling methods.

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(Oleum Lavandulae.)

Riechstoffind., 3, p. 56 (Yrbk. Am. Pharm. Assoc.,  
16 & 17, p. 698.)

(Discusses the various species and the  
hybrid of lavender.)

The original was not available.

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The Lavender Industry in Southern  
France.

Am. Perf. and Essent. Oil Rev., 23, pp. 584 & 663.

Lists the species used, describes lavender  
in its natural state, methods of planting and  
culture, yields of plants per hectare, longevity of  
the plantings, cost of cutting, cost of planting,  
quality of oil from planted lavender, yield of oil,  
methods of distillation, cost of distillation,  
purchasing of oil in Southern France, future  
development in Southern France, uses, by - products, and  
adulteration of oil of lavender - all of which is  
accompanied by 8 illustrations and a picture of the  
author.

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(Special Correspondence.)

1928

Lavender Pioneer Returns to Harvest.

Am. Perf. and Essent. Oil Rev., 23, p. 362.

Gives a brief life history of William  
Mitchell, aged 94, the oldest survivor of the  
Mitcham lavender industry, who returns to help  
harvest the crops of Mitcham lavender grown near  
the border of Mitcham, England.

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Volmar, Y. and Jermstad, A.

1928

L'essence "absolue" de Sauge Sclaree:  
ses constantes, sa composition chimique.

Journ. de Pharm. et Chim., s. 8, v. 8, p. 390 (Ibid.,  
s. 8, v. 10, p. 201.)

Give a method of distillation which is  
also used for the distillation of lavender.

---

Brauer, E.

1929

Kulturversuche zur Steigerung von  
Ausbeute und Estergehalt des  
Lavendelöls.

Schimmel and Co., Bericht, Jabilaumsausgabe, p. 139  
(Schimmel and Co., Ann. Report, 1930, p. 51.)

Report of experiments on the cultivation  
of lavender to increase the yield of lavender oil  
and its ester content.

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(Editor.)

1929

Italian Essential Oils.

Perfum. Record, 20, p. 491 (Schimmel and Co., Ann.  
Report, 1930, p. 144.)

Mentions the amount of lavender oil  
distilled in Italy, chiefly Piedmont, in 1929.

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(Editor.)

1929

The Lavender Fair at Digne.

Perf. and Essent. Oil Rec., 20, p. 453 (Schimmel and Co.,  
Ann. Report, 1930, p. 51.)

Reports that the lavender fair which was  
held at Digne was successful.

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(Editor.)

1929

The Lavender Harvest.

Perf. and Essent. Oil Rec., 20, p. 453 (Schimmel and Co.,  
Ann. Report, 1930, p. 51.)

Reports that the lavender harvest in the  
department of Drôme, France was below the average.

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Muller, A.

1929

(Oleum Lavandulae.)

Seifensieder-Ztg., (Der Parfumerer), 56, p. 95  
(Schimmel and Co., Ann. Report, 1930, p. 52.)

(Reports on the examination of some  
concrete lavender-extract oils.)

The original was not available.

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Rodie, J.

1929

(Oleum Lavandulae.)

Les Editions de la Revue des Marques, March, p.--  
(Schimmel and Co., Ann. Report, 1930, p. 51.)

(A general article on lavender containing  
numerous illustrations, various maps of the French  
lavender districts, and a price curve for lavender  
oil from 1906-1928.)

The original was not available.

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(Special Correspondence.)

1929

Lavender Cultivation in Tasmania.

Am. Perf. and Essent. Oil Rev., 24, p. 359.

Gives the history of the cultivation of lavender in Tasmania by K. C. Denny, an Englishman and mentions the demand and markets for the product, oil of lavender.

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Volmar, Y. and Thurkauf, O.

1929

L'essence absolue de lavande: ses  
Constantes, sa composition chimique.

Journ. de Pharm. et Chim., 10, p. 199 (Yrbk. Am. Pharm.  
Assoc., 18, p. 43; Perf. and Essent. Oil Rec., 20, p. 452;  
Schimmel and Co., Ann. Report, 1930, p. 52.)

Discuss the constants and chemical  
composition of "absolute essence of lavender".

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1929

(Oleum Lavandulae.)

Deutsche Parf.-Ztg., 15, p. 227 (Schimmel and Co.,  
Ann. Report, 1930, p. 51.)

(Gives the annual production of lavender  
oil in Italy.)

The original was not available.

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Chiris, A.

1930

(Oleum Lavandulae.)

Les Parfums de France, 8, p. 227 (Schimmel and Co.,  
Ann. Report, 1931, p. 39.)

(A study on the formation of lavender oil  
in the plant and the stage of growth from which the  
best yield can be obtained.)

The original was not available.

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(Editor.)

1930

Lavender.

Perf. and Essent. Oil Rec., 21, p. 386.

Gives the reports of various companies in regard to the satisfactory outcome of their lavender industry during the past year.

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(Editor.)

1930

Lavender in Algeria.

Chem. and Drugg., 112, p. 495 (Schimmel and Co., Ann. Report, 1931, p. 40.)

Mentions the cultivation of lavender in Algeria and believes it to be a suitable location.

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(Editor.)

1930

Lavender in Tasmania.

Perf. and Essent. Oil Rec., 21, p. 179 (Ibid., 22, p. 113.)

Reports upon the favorable outcome of the cultivation of lavender in Tasmania.

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(Editor.)

1930

The "Shab" Disease of Lavender.

Perf. and Essent. Oil Rec., 21, p. 7.

Summarizes the work done thus far on the "shab" disease of lavender and describes the advancements made.

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- Schimmel and Co. 1930  
Lavender Oil.  
Ann. Report, 1930, p. 51.  
Gives the yield, prices, and the results  
of the tests as to the composition of the oil of lavender.
- 
- Schimmel and Co. 1930  
Plant Pests.  
Ann. Report, 1930, p. 144.  
Report on the occurrence and spread of a  
scab on lavender.
- 
- Sievers, A. F. 1930  
American Cultivation Trials.  
Perfum. Record, 21, p. 211 (Schimmel and Co., Ann.  
Report, 1931, p. 40.)  
Reports the results of the experiments  
on the cultivation of lavender in the Puget Sound  
District.
- 
- ( ) 1930  
(Oleum Lavandulae.)  
Les Parfums de France, 8, p. 284 (Schimmel and Co.,  
Ann. Report, 1931, p. 39.)  
(An article on "lavandin".)  
The original was not available.
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(Editor.)

1931

Lavandula Stoechas.

Perf. and Essent. Oil Rec., 22, p. 94.

Gives the characteristics of an oil of lavender distilled from Lavandula Stoechas.

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(Editor.)

1931

Suggested Control of French Lavender Oil.

Perf. and Essent. Rec., 22, p. 334.

Reports the introduction of a Bill into the French House of Deputies which aims to control the purity of lavender oil and mentions objections to it.

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(Editor.)

1931

The Annual "Lavender Oil Sample Fair."

Perf. and Essent. Oil Rec., 22, p. 319 (Ibid., 23, p. 288.)

Announces the annual lavender oil Sample fair to be held at Digne (Basse-Alpes), France.

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Essential Oil Sub-Committee.

1931

The Determination of Cineole in Essential Oils.

Analyst, 56, p. 738 (Perf. and Essent. Oil Rec., 23, p. 341.)

Suggests that when determining the cineol content of French oil of lavender, the presence of alcohols, esters, etc. causes errors in the results.

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Longmore, A. B.

1931

(Oleum Lavandulae.)

Austr. Journ. of Pharm., --, p. -- (Perf. and Essent. Oil Rec., 22, p. 113.)

(Praises the lavender industry in Tasmania, Australia and describes the setting of the fields of lavender.)

The original was not available.

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Schimmel and Co.

1931

Lavender Oil.

Ann. Report, p. 38.

Discuss falling prices, lagging sales, intensive cultivation of lavender, new cultivation areas, ester content of different oils, and the tests and properties specified by the German Pharmacopoeia for Lavender Oil.

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Taylor, E. C.

1931

French Production of Lavender Oil in 1930.

Am. Perf. and Essent. Oil Rev., 26, p. 13.

Reports on the production and the prices of oil of lavender for 1930 in France.

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Tombarel Frères.

1931

Practical Perfumery Notes.

Perf. and Essent. Oil Rec., 22, p. 284.

Give a report of the lavender crop and industry of Grasse, in Southern France.

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Gattefosse, R. M.

1932

(Oleum Lavandulae.)

Parfum. Moderne, 26, p. 534 (Schimmel and Co., Ann. Report, 1933, p. 36.)

(Discusses the therapeutic properties of terpeneless lavender oil and the benefits resulting from such use.)

The original was not available.

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Green, M. L. (Miss)

1932

(Nomenclature of Lavender and Spike.)

Bull. of Misc. Inf. (Kew Gardens), No. 6, p. --- (Perf. and Essent. Oil Rec., 23, p. 290; Rhodora, 30, p. 55.)

(Discusses the botanical names of lavender and spike.)

The original was not available.

---

Guenther, E. S.

1932

(Lavender Production.)

Soap, ---, p. ---.

(Discusses the following problem: Will a scarcity result from a shut-down of the modern distilleries, which leaves the French farmer - distiller the sole producer? Gives a history of the production, distillation, and prices of oil of lavender and includes 12 illustrations.)

The original was not available.

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Honey, R.

1932.

Lavender Oil Exports from France to  
United States Down.

Am. Perf. and Essent. Oil Rev., 26, p. 595.

Reports data concerning the exports  
of lavender oil from France to the United States.

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Reed, R. M.

1932

The Cineole Content of French  
Lavender Oil.

Perf. and Essent. Oil Rec., 23, p. 340.

Gives a summary of the experiments and  
results carried on up to this time on the cineole  
content of French lavender oil.

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(Special Correspondence.)

1932

Propose Lavender Labelling Law.

Am. Perf. and Essent. Oil Rev., 27, p. 181.

Gives the principal provisions of the  
proposed law developing from the Lavender Fair and  
Congress at Digne, France, which if enacted, would  
improve the conditions of sale of lavender and oil  
of lavender.

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1932

(Oleum Lavandulae.)

Chemical Trade Journal, --, p. -- (Chem. Industrie, 55,  
p. 779; Schimmel and Co., Ann. Report, 1933, p. 35.)

(Announces the production of lavender  
oil in West Australia.)

The original was not available.

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1932

Produktion von Lavendeloel.

Chem. Industrie, 55, p. 891 (Schimmel and Co., Ann. Report, 1933, p. 35.)

Gives information about 2 relatively new lavender fields in South Africa near Port Elizabeth and Piquetberg.

1933

Schimmel and Co.

Lavender Oil.

Ann. Report, p. 34.

Discuss yields, prices, production, new lavender fields in South Africa, adulterants, therapeutic properties, and include a chart on which a comparison of distillation yields is given.

1934

Bordas, J., Joessel, P., and Anches, E.

(Oleum Lavandulae.)

Parfum. Moderne, 28, p. 223 (Schimmel and Co., Ann. Report, 1935, p. 46; Soap, --, p. --.)

(Give their observations on the investigations as to the cause of the dyeing off of lavender plantations in parts of France.)

The original was not available.

1934

Charpentier, C. A.

French Lavender Oil.

Perf. and Essent. Oil Rec., 25, p. 242.

Reports on the French oil of lavender crop of 1934.

(Editor.)

1934

Italian Lavender Oil.

Perf. and Essent. Oil Rec., 25, p. 5.

Reports the use of new steam stills for lavender in Piedmont (Briga Marittima Valley), Italy.

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(Editor.)

1934

Lavender Oil.

Perf. and Essent. Oil Rec., 25, p. 331.

Reports the making of this ruling: "that terpeneless lavender oil be entitled to import entry free of duty".

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(Editor.)

1934

The 1934 French Lavender Crop.

Perf. and Essent. Oil Rec., 25, p. 331.

Reports on the season's relatively poor lavender crop in France.

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Schimmel and Co.

1934

Lavender Oil.

Ann. Report, p. 40.

Discuss the low supply of oil of lavender, it being on a general decline, and the properties and progress of Italian lavender oil.

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Thiebaut, R.

1934

(Oleum Lavandulae.)

Parfum. Moderne, 28, p. 41 (Schimmel and Co., Ann. Report, 1935, p. 47.)

(Gives his proof of the presence of acetates in lavender oil.)

The original was not available.

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1934

(Oleum Lavandulae.)

Chem. Industrie, 57, p. 60 (Schimmel and Co., Ann. Report, 1934, p. 41.)

(Reports progress made in lavender oil distillation in Italy.)

The original was not available.

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1934

(Oleum Lavandulae.)

Parfum. Moderne, 28, p. 467 (Schimmel and Co., Ann. Report, 1935, p. 46.)

(Gives data as to drop results, markets, and prices of oil of lavender.)

The original was not available.

(Editor.)

1935

Bed - Bug Killer.

Drugg. Circ., 79, p. 46.

Gives a formula for a bed - bug killer which contains oil of lavender.

(Editor.)

1935

Lavender Water presented to the Queen.

Perf. and Essent. Oil Rec., 26, p. 276.

Reports that the Queen of England was the recipient of perfume prepared from oil of lavender while attending the Old Westminster market.

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(Editor.)

1935

The Annual Lavender Oil Sample Fair.

Perf. and Essent. Oil Rec., 26, p. 310.

Announces the dates of the annual Lavender Fair held at Digne, France, as September 28.

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Schimmel and Co.

1935

Lavender Oil.

Ann. Report, p. 45.

Mention increased production, prices of lavender oil and "lavandin", crops, investigation of the increasing numbers of lavender plantations, and the confirmation of the presence of acetic acid.

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(Special Correspondence.)

1935

Lavender Report from Grasse.

Am. Perf. and Essent. Oil Rev., 29, p. 590.

Reports on the market and price conditions concerning oil of lavender in the Grasse region in France.

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Wyckoff, L. J. and Silvers, A. F.

1935

Lavender Growing in America.

Am. Perf. and Essent. Oil Rev., 31, pp. 67 & 146.

Record the results of an investigation of the possibilities of the commercial growing of lavender in the Puget Sound area as a source of oil from the perfumery industry. Include 8 photographs of fields of lavender. The following topics are discussed: history; early planting of local stock; experiments with true lavender at Bothell, Chimacum, and Chambers Prairie, Washington; results at Chambers Prairie, methods of harvesting; machine work on larger plants, summary and conclusion.

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Allen, S. and Sons, Ltd.

1936

English Lavender.

Perf. and Essent. Oil Rec., 27, p.447.

Correct the erroneous statement of the cultivation of lavender at Norfolk, England.

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Bienfang, R.

1936

Odor Curves.

Am. Perf. and Essent. Oil Rev., 32, p. 49.

Explains his attempt to classify odors by means of curves - The 5 qualities of each odor - strength, tone, clarity, persistency, and esthetic effect - are divided into 5 unit degrees, and from these 25 unit possibilities 5 are chosen to classify the odor. Gives odor curves of 9 essential oils, including that of oil of lavender, which is classified as having a clean odor.

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(Editor.)

1936

American Lavender Oil.

Perf. and Essent. Oil Rec., 27, p. 98.

Reports that the "Plant Research Foundation" of Seattle, Washington aims at promoting the production of lavender oil eventually on a commercial scale.

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(Editor.)

1936

Digne Lavender Fair.

Perf. and Essent. Oil Rec., 27, p.422.

Reports the successful outcome of the sixteenth Lavender Fair held at Digne (Alpes and Provence), France.

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(Editor.)

1936

The King and Lavender.

Perf. and Essent. Oil Rec., 27, p. 420.

Reports the grant of 6 acres of lavender by the King at Sandringham, England, to be devoted to experimental crops of Lavender.

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Guenther, E. S.

1936

(Oil of Lavandin.)

Soap, --, p. ---.

Discusses the cultivation, production, distillation, and uses of oil of lavandin for with the decline in French lavender plantations and a growing scarcity of wild lavender, this a hybrid of spike and true lavender, assumes increasing interest to soap perfumers, and includes 7 illustrations.

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Lavender in Tasmania.

Perf. and Essent. Oil Rec., 27, p. 194.

Summarizes the history of the Bridestowe  
Lavender Estate, Tasmania, and includes 5 illustrations.

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LIST OF BOOKS CONSULTED.

- Bigelow, J., A Treatise on the Materia Medica, 1 ed., 1882.
- 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.
- Ewell, J., The Medical Companion, 3 ed., 1817; 7 ed., 1827.
- Fluckiger, 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, 3 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.

Wheatley, F., Cries of London, 1792.

Wood, G. B. & Bache, F., (The) Dispens(atory of the)

U(nited) S(tates of) Am(eric)ica), 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.

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- Am(eric)an Drugg(ist and Pharmaceutical Record), v. 22-72;  
1893-1924.
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- Am(eric)an Journ(al of) Pharm(acy), v. 1-108; 1829-1936.
- Am(eric)an Perf(umery 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(aceutical) Assoc(iation),  
v. 1-25; 1851-1936.
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v. 1-59; 1851-1911.
- Schimmel & Co., Bericht, 1886-1891.
- Schimmel & Co., Semi-Ann(ual) Report, 1892-1918.
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UNITED STATES PHARMACOPOEIA (O-XI )

( 1820 - 1930 )

and

NATIONAL FORMULARY

( 1888 - 1936 )

HISTORY

OF

OIL OF LAVENDER

U.S.P., - 1820, Prep. p. 168

Olea Distillata

In oleis volatilibus parandis introducatur materia, ex qua / oleum derivandum sit, in retortam, seu vas quodque ad distillan -/ dum idoneum; et aquae ad materiam tegendam satis infunde -/ tur: deinde oleum in vas amplum refrigeratorium distillet.

Oleum cum aqua transvectum postea separatum est, prout / aqua levius, summa supernatet seu gravius immum petat.

Hoc modo paranda sunt

X X X

Oleum Lavandulae

A lavandula.

U.S.P., - 1820, Prep. p. 169

Distilled Oils

In preparing such oils as are volatile, we introduce the sub -/ stance from which the oil is to be obtained, into a retort or / common still, and pour on as much water as will cover it; then / distill into a large refrigeratory.

The oil comes over with the water, and is afterwards to be / separated from it, according as it may be lighter than the water, / and swim upon its surface, or heavier, and sink to the bottom.

According to the above method are prepared

X X X

Oil of Lavender

From lavender

Distilled Oils

In preparing such oils as are volatile, the substance from which / the oil is to be obtained, is introduced into a retort or common still, and / as much water poured on as will cover it; then distill into a large re -/frigeratory.

The oil comes over with the water, and is afterwards to be separated / from it, according as it may be lighter than the water, and swim upon / its surface, or heavier, and sink to the bottom.

Hoc modo paranda sunt	:	According to the above
	:	method are prepared,
	:	
X X X	:	X X X
	:	
Oleum Lavendulae	:	Oil of Lavender
	:	
A lavendula	:	From lavender
	:	

Olea Destillata

Materiam ex qua Oleum ex trahendum est, in retortam/ seu vas quodvis ad destillandum idoneum immitte, et/ aquae adjice quantum eam contegat; deinde oleum in/ vas amplum refrigeratorium destillet. Oleum Destil-/ latum ab aqua quae cum eo prodit separetur.

Hoc modo praeparentur

X X X

Oleum Lavandulae,

Ex Lavandula

U.S.P., - 1830 (Phil.), Prep. p. 155

Distilled Oils

Put the substance from which the oil is to be extracted, into a retort or other vessel suitable for distillation, and add enough water to cover it; then distill into a large refrigeratory. Separate the Distilled Oil from the water which comes over with it.

In this manner prepare

X X X

Oil of Lavender,

From Lavender

U.S.P., - 1840, Prep. p. 147

Olea Destillata

In the preparation of the Distilled Oils, put the substance from which the oil is to be extracted into a retort, or other vessel suitable for distillation, and add enough water to cover it; then distill into a large refrigeratory. Separate the Distilled Oil from the water which comes over with it.

In this manner prepare

X X X

Oleum Lavendulae,

Oil of Lavender,

From Lavender

U.S.P., - 1850, Prep. p. 177

Olea Destillata

In the preparation of the Distilled Oils, put the substance from which the oil is to be extracted into a retort, or other vessel suitable for distillation, and add enough water to cover it; then distil into a large refrigerator. Separate the Distilled Oil from the water which comes over with it.

In this manner prepare

X X X

Oleum Lavendulae,  
Oil of Lavender,

From Lavender.

U.S.P., 1860, Prep. p. 242

Olea Destillata

The Distilled Oils, when dropped on paper, produce a greasy stain, which entirely disappears on exposure to a moderate heat. When shaken with water in a graduated tube and allowed to separate, they are not diminished in volume. Dry acetate of potassa, or solid chloride of calcium, is not liquefied on being agitated with them.

Most of the distilled oils are prepared by the following general formula.

Put the substance from which the Oil is to be extracted into a retort, or other vessel suitable for distillation, and add enough water to cover it; then distil by a regulated heat into a large refrigerator.

Separate the Distilled Oil from the/ water which comes over with it.

X X X

Oleum Lavandulae

Oil of Lavender

Prepare this Oil from Lavender by the general/ formula given at page 242.

U.S.P., - 1870, Prep. p. 233

Olea Destillata

The Distilled Oils, when dropped on paper, produce a/ greasy stain, which entirely disappears on exposure to a/ moderate heat. When shaken with water in a graduated/ tube and allowed to separate, they are not diminished in/ volume. Dry acetate of potassium, or solid chloride of/ calcium, is not liquefied on being agitated with them.

Most of the Distilled Oils are prepared by the following/ general formula.

Put the substance from which the Oil is to be extracted/ into a retort, or other vessel suitable for distillation, and/ add enough water to cover it; then distil be a regulated/ heat into a large refrigeratory. Separate the Distilled Oil/ from the water which comes over with it.

X X X

Oleum Lavendulae.

Oil of Lavender

Prepare this Oil from Lavender, by the general formula/ given at page 233.

U.S.P., - 1880, p. 238

Oleum Lavandulae

Oil of Lavender

A volatile oil distilled from the flowering tops or the whole herb of/ Lavandula vera De Candolle (Nat. Ord., Labiatae).

A colorless, or yellowish, or greenish - yellow liquid, having the aromatic odor of/ lavender, a pungent and bitterish taste, and a neutral reaction while fresh. Sp./gr. about 0.890. It is readily soluble in alcohol, and in acetic acid of 90 or more/ per cent.

Preparation: Tinctura Lavandulae Composita.

U.S.P., - 1880, p. 238

Oleum Lavandulae Florum

Oil of Lavender Flowers

A volatile oil distilled from fresh Lavender.

A colorless or yellowish liquid, having the fragrant odor of lavender flowers, a / pungent and bitterish taste, and a neutral reaction while fresh. Sp. gr. about 0.890./ It is readily soluble in alcohol and in acetic acid of 90 or more per cent.

When heated to about 80°C. (176°F.), it should not yield a colorless distillate/ having the characteristics of alcohol.

Preparations: Spiritus Lavandulae, Spiritus Odoratus.

U.S.P., 1890, P. 280

Oleum Lavandulae Florum

Oil of Lavender Flowers

A volatile oil distilled from the fresh flowers of Lavandula officinalis/ Chaix (Nat. ord. Labiatae).

It should be kept in well - stoppered bottles, in a cool place, protected/ from light.

A colorless or yellowish liquid, having the fragrant odor of lavender flowers,/ and a pungent and bitterish taste.

Specific gravity: 0.885 to 0.897 at 15°C. (59°F.)

It is soluble in all proportions in alcohol (distinction from oil of turpentine),/ and in 3 times its volume of a mixture of 3 volumes of alcohol and 1 volume/ of water (distinction from, and absence of, oil of turpentine); it is also soluble/ in glacialacetic acid. With an equal volume of carbon disulphide it forms a/ turbid mixture.

Oleum Lavandulae Florum

The alcoholic solution of the Oil is neutral or slightly acid to litmus paper.

When heated on a water - bath, in a flask provided with a well - cooled con-/denser, the oil should yield no distillate having the characters of alcohol.

Preparations: Spiritus Lavandulae. Tinctura Lavandulae Composita.

U.S.P., - 1900, p. 316

Oleum Lavandulae Florum

Oil of Lavender Flowers

A volatile oil distilled from the fresh flowering tops of Lavandula / Officinalis (Fam. Labiatae). It should be kept in amber - colored, / well - stoppered bottles, in a cool place, protected from light.

A colorless or yellow liquid, having the fragrant odor of lavender flowers, / and a pungent and slightly bitter taste.

Specific gravity: 0.880 to 0.892 at 25°C. (77°F.).

It is soluble in 3 parts of 70 percent. alcohol.

When the oil is shaken with water in a narrow graduated cylinder, its vol -/ume should not be diminished (absence of alcohol).

Average Dose.- 0.2 Cc. (3 minims).

U.S.P., - 1910, p. 293

Oleum Lavandulae

Oil of Lavender

Ol. Lavand. - Oleum Lavandulae Florum, U.S.P.VIII

A volatile oil distilled from the fresh flowering tops of Lavandula vera/ De Candolle (Lavandula officinalis Chaix, Lavandula spica Linne) (Fam./Labiatae). Preserve it in well - stoppered, amber - colored bottles, in a/ cool place, protected from light.

Oil of Lavender is a colorless or yellow liquid, having the characteristic odor/ and taste of lavender flowers.

It is soluble in 3 volumes of 70 per cent. alcohol.

Specific gravity: 0.875 to 0.888 at 25°C.

The optical rotation varies from  $-1^{\circ}$  to  $-10^{\circ}$  in a 100 mm. tube at 25°C./ (see Part II, Test No. 21).

When shaken in a narrow glass cylinder with an equal volume of distilled/ water, its volume does not diminish (alcohol).

Shake 20 mls of the Oil with 40 mls of 5 percent alcohol and, when the mix -/ ture has cleared, withdraw 30 mls of the alcoholic solution. Neutralize this with/ half-normal potassium hydroxide V.S., using phenolphthalein T.S. as indicator,/ then add 5 mls of half-normal potassium hydroxide V.S. and heat the mixture/ on a water bath, under a reflux condenser, during on hour. Not less than 4.7 mls/ of half-normal hydrochloric acid V.S. is required for neutralization (foreign esters).

Preparations:- Spiritus Lavandulae. Tinctura Lavandulae Composita.

Average Dose - Metric, 0.2 mil. - Apothecaries, 3 minims.

U.S.P., - 1920, p. 259

Oleum Lavandulae

Oil of Lavender

Ol. Lavand.

The volatile oil of distilled from the fresh flowering tops of Lavandula/ Spica Linne (Lavandula officinalis Chaix, Lavandula vera De Candolle) / (Fam. Labiatae). Oil of Lavender yields not less than 30 percent of / esters calculated as linalyl acetate ( $C_{10}H_{17}^*C_2H_3O_2$ ).

Description and physical properties - A colorless or yellow liquid, having the char -/ acteristic odor and

taste of lavender flowers.

Tests for identity and purity - The Oil is soluble in 3 volumes of 70 per cent / alcohol, by volume. Specific gravity: 0.875 to 0.888 at 25°C. Optical rotation: varies from -3° to -10° in a 100 mm. tube at 25°C., /page 447.

Refractive index: 1.4600 to 1.4640 at 20° C., page 456.

Shake 5 cc. of Oil of Lavender with an equal volume of distilled water in a / narrow, graduated, 10 cc. glass stoppered cylinder: the volume of the Oil does / not diminish (alcohol).

Shake 20 cc. of the Oil with 40 cc. of 5 per cent. alcohol in a 100 cc. glass / stoppered cylinder. When the mixture has cleared, withdraw 30 cc. of the / alcoholic solution, by means of a pipette, and place it in a 125 cc. Erlenmeyer / flask. Neutralize the solution with half - normal potassium hydroxide, using / 2 drops of phenolphthalein T.S. as indicator, add 5 cc. of half-normal potas / sium hydroxide, and heat the mixture on a bath of boiling water under a reflux / condenser during one hour. Allow the mixture to cool, remove the flask from / the bath, and titrate the excess of alkali with half - normal hydrochloric acid: / not less than 4.7 cc. is required for neutralization (acetins).

Assay - Proceed as directed for esters under Oleum Mentha Piperitae, p. 262, / using 5 cc. of Oil of Lavender, accurately weighed, and 50 cc. of half - normal / alcoholic potassium hydroxide. Multiply the number of cc. of half-normal / alcoholic potassium hydroxide actually used in the

saponification, by 9.811, / and divide the product by the weight of the Oil of Lavender taken. The result / gives the per cent of esters, calculated as linalyl acetate.

Preserve in well - stoppered, amber - colored bottles, in a cool place, protected / from light.

Preparations - Spiritus Lavandulae, Tinctura Lavandulae Composita.

Average Dose - Metric, 0.1 cc. - Apothecaries,  $1\frac{1}{2}$  minims.

U.S.P., - 1930 , p. 256

Oleum Lavandulae

Oil of Lavender

Ol. Lavand. - Oil of Lavender Flowers

Oil of Lavender is the volatile oil distilled with steam from the fresh / flowering tops of Lavandula Spica Linne (Lavandula officinalis Chaix, / Lavandula vera De Candolle) (Fam. Labiatae). Oil of Lavender contains / not less than 30 per cent of esters calculated as linalyl acetate ( $C_{10}H_{17}-/ C_2H_3O_2$ ).

Description and physical preperities - a colorless or yellow liquid, having the / characteristic odor and taste of lavender leaves.

Tests for identity and purity - The Oil is soluble in 4 volumes of 70 per cent alcohol, / by volume.

Specific gravity: 0.875 to 0.888 at 25°C.

Optical rotation: from  $-3^{\circ}$  to  $-10^{\circ}$  in a 100 mm. tube at 25°C., page / 459.

Refractive index: 1.4590 to 1.4700 at 20° C., page 454.

Shake 5 cc. of Oil of Lavender with an equal volume of distilled water in a / narrow, graduated, 10 cc. glass - stoppered cylinder: the volume of the Oil / does not diminish (alcohol).

Shake 20 cc. of the Oil with 40 cc. of 5 per cent alcohol in a 100 cc. glass - / stoppered cylinder. When the mixture has cleared, withdraw 30 cc. of the / alcoholic solution, by means of a pipette, and place it in a 125 cc. Erlenmeyer / flask. Neutralize the solution with half - normal potassium hydroxide, using / 2 drops of phenolphthalein T.S. as the indicator, add 5 cc. of half - normal / potassium hydroxide, and heat the mixture on a bath of boiling water under / a reflux condenser during one hour. Allow the mixture to cool, remove the / flask from the bath, and titrate the excess of alkali with half - normal hydro - / chloric acid: not less than 4.7 cc. of the acid solution is required for neutraliza - / tion (acetins).

Assay - Proceed as directed for esters under Oleum Menthae Piperitae, using 5 cc. / of oil of Lavender, accurately weighed, and 50 cc. of half - normal alcoholic potassium / hydroxide consumed in the saponification, multiplied by 0.09811, indicates / the number of Gm. of esters, calculated as linalyl acetate, ( $C_{10}H_{17} \cdot C_2H_3O_2$ ); / in the oil taken for the assay.

Storage - Preserve Oil of Lavender in well - closed ~~red~~ containers, in a cool place and / protected from light.

Preparations - Spiritus Lavandulae, Tinctura  
Lavandulae Composita.

Average Dose - Metric , 0.1 cc. - Apothecaries,  
 $1\frac{1}{2}$  minims.

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SUMMARY OF  
UNITED STATES PHARMACOPOEIA ( O-XI )  
( 1820 - 1930 )  
and  
NATIONAL FORMULARY  
( 1888 - 1936 )

DATA  
OF  
OIL OF LAVANDER

Official in:

U.S.P., 1820; '30 (N.Y.); '30 (Phil.); '40; '50; '60;  
'70; '80; '90; 1900; '10; '20; '30.

Official Latin Title:

Oleum Lavandulae, U.S.P., 1820; '30 (Phil.); '60; '80;  
1910; '20; '30.

Oleum Lavendulae, U.S.P., 1830 (N.Y.); '40; '50; '70.

Oleum Lavandulae Florum, U.S.P., '80; '90; 1900.

Official English Title:

Oil of Lavender, U.S.P., 1820; '30 (N.Y.); '30 (Phil.);  
'40; '50; '70; '80; 1910; '20; '30.

Oil of Lavender Flowers, U.S.P., 1880; '90; 1900

Official Abbreviation:

Ol. Lavand., U.S.P., 1910; '20; '30.

Official Synonym:

Oleum Lavandulae Florum, U.S.P., 1910.

Oil of Lavender Flowers, U.S.P., 1930.

Official Scientific Name:

*Lavandula vera* De Candolle, U.S.P., 1880.

*Lavandula officinalis* Chaix, U.S.P., 1890; 1900.

*Lavandula vera* De Candolle (*Lavandula officinalis*  
Chaix, *Lavandula spica* Linne), U.S.P., 1910.

*Lavandula Spica* Linne (*Lavandula officinalis* Chaix,  
*Lavandula vera* De Candolle), U.S.P., 1920; '30.

Official Family:

(Nat. Ord., Labiatae), U.S.P., 1880; '90.

(Fam. Labiatae), U.S.P., 1900; '10; '20; '30.

Product and Part Used:

Lavender, U.S.P., 1820; '30 (N.Y.); '30 (Phil.); '40;  
'50; '60; '70.

Flowering tops or the whole herb, U.S.P., 1880.

Fresh flowers, U.S.P., 1890.

Fresh flowering tops, U.S.P., 1900; '10; '20; '30.

Description:

A volatile oil, U.S.P., 1880; '90; 1900; '10.

The volatile oil, U.S.P., 1920; '30.

Official Preparations:

Tinctura Lavandulae Composita, U.S.P., 1880; '90;  
1910; '20; '30.

Spiritus Lavandulae, U.S.P., 1880; '90; 1910; '20;  
'30.

Spiritus Odoratus, U.S.P., 1880.

Average Dose:

0.2 cc (3 minims), U.S.P., 1900.

Metric, 0.2 mil. - Apothecaries,  $1\frac{1}{2}$  minims, U.S.P.,  
1910.

Metric, 0.1 cc. - Apothecaries,  $1\frac{1}{2}$  minims, U.S.P., 1920; '30.

Properties:

A colorless or yellow liquid, having the characteristic  
odor and taste of lavender flowers., U.S.P., 1920; '30.

Medical operations:

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APPROVED BY W.O. Richtmann.

Professor of Pharmacognosy.