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The volatile oils Volume 1

Eduard Gildemeister

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This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1913 Excerpt: ... employ as diluent a mixture of 1 vol. of amylalcohol and 2 vol. ether, cool the mixture and add bromine drop by drop. In the proportion in which the ether evaporates, the tetrabromide is said to crystallize out. Power and Kleber'2) add the fraction to be tested for limonene drop by drop to a cooled mixture of glacial acetic acid and bromide until only a slight excess of bromine remains. The solution is then decolorized with an aqueous solution of sulphur dioxide and the bromide precipitated with water. Their object is to prevent the formation of hydrogen bromide and of noncrystalline bromides of isomeric terpenes. Finally, a combination of both methods has been suggested by Godlewsky.8) He suggests that a solution of the terpene in a mixture of equal parts of amylalcohol and ether be added drop by drop to an ethereal solution of bromine which is kept cold by ice water during the course of the reaction. Dipentene. CM, H8C-C:CH2 The optically inactive form of limonene, the dipentene, has been found frequently in nature, though not as commonly as limonene. It must also be born in mind that the dipentene identified may have been formed from pinene or limonene during the process of fractionating the oil. Dipentene has been found in the following oils: In the oils from the turpentines of different species of Pinus, in pine tar oils, in the needle oil from Picea excelsa, in Swedish turpentine oil, in Siberian pine needle oil, in the needle oil from Callitris glauca, in the oils of palmarosa, lemongrass, citronella, gingergrass, cardamom, pepper, cubeb, nutmeg, boldo leaves, kuromoji, campher, cinnamon root, massoybark, apopin, bergamot, limette leaves, neroli, wartara, buchu, frankincense, myrrh, myrtle, ajowan, coriander, cumin, and fennel, also in the oils of S...

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