

Peppermint Oil On Spiders

Carveol The immediate precursor in plants including peppermint and spearmint is limonene. Oxidation of the (S) enantiomer by (S)-limonene Carveol is a natural unsaturated, monocyclic monoterpenoid alcohol that is a constituent of spearmint essential oil in the form of cis-(–)-carveol. Consequently, it is used as a fragrance in cosmetics and as a flavor additive in the food industry. It is a colorless fluid soluble in oils, but insoluble in water and has an odor and flavor that resemble those of spearmint and caraway. from geranyl pyrophosphate a2a308cbdb

Some insect repellents are insecticides (bug killers), but most simply discourage insects and send them flying or crawling away. a2a308cbdb

Peppermint extract The oil has been used for various purposes over centuries. Peppermint extract is an extract of peppermint (*Mentha × piperita*) made from the essential oil of peppermint leaves. Peppermint is a hybrid of water mint Peppermint extract is an extract of peppermint (*Mentha × piperita*) made from the essential oil of peppermint leaves. Peppermint is a hybrid of water mint and spearmint a2a308cbdb

For many people, menthol produces a cooling sensation when inhaled, eaten, or applied to the skin, and mint plants have been used for centuries for topical pain relief and as a food flavoring. Menthol has local anesthetic and counterirritant qualities, and it is widely used to relieve minor throat irritation. a2a308cbdb In 2015, researchers at New Mexico State University tested 10 commercially... a2a308cbdb Monoterpenes such as carveol are produced from geranyl pyrophosphate. The immediate precursor in plants including peppermint and spearmint is limonene. Oxidation of the (S) enantiomer by (S)-limonene 6-monooxygenase gives (–)-trans-carveol: a2a308cbdb Peppermint extract is commonly used in cooking, as a dietary supplement, as an herbal or alternative medicine, as a pest repellent, and a flavor or fragrance agent for cleaning products, cosmetics, mouthwash, chewing gum, and candies. Its active ingredient menthol causes a cold sensation when peppermint extract is consumed or used topically. a2a308cbdb There is insufficient evidence to conclude peppermint oil is effective for treating any medical condition, and ingesting it may cause adverse effects, including a possible allergic reaction. a2a308cbdb Terpin hydrate is an expectorant, used in the treatment of acute and chronic bronchitis, pneumonia, bronchiectasis, chronic obstructive pulmonary disease, and infectious and inflammatory diseases of the upper respiratory tract. It is typically formulated with an antitussive, such as codeine, as a combined preparation. a2a308cbdb

Insect repellent) (*Mentha* sp. spiders, cockroach) Marjoram (spider mites *Tetranychus urticae* and *Eutetranychus orientalis*) Mint (menthol is active chemical. Pest animals commonly serving as vectors for disease include insects such as flea, fly, and mosquito; and arachnids such as ticks. Insect repellents help prevent and control the outbreak of insect-borne (and other arthropod-borne) diseases such as malaria, Lyme disease, dengue fever, bubonic plague, river blindness, and West Nile fever.) Neem oil An insect repellent (also commonly called "bug spray" or "bug deterrent") is a substance applied to the skin, clothing, or other surfaces to discourage insects (and arthropods in general) from landing or climbing on that surface a2a308cbdb

Menthofuran After ingestion of menthofuran, it is metabolically activated to chemically reactive intermediates that are hepatotoxic. "Menthofuran regulates essential oil biosynthesis in peppermint by controlling a downstream monoterpene reductase". Croteau RB (November 2003). It is highly toxic and believed to be the primary toxin in pennyroyal responsible for its potentially fatal effects. Proceedings Menthofuran is an organic compound found in a variety of essential oils including that of pennyroyal (*Mentha pulegium*) a2a308cbdb

== Isolation and some uses == a2a308cbdb Menthol has been demonstrated to cause a subjective nasal decongestant effect without any objective decongestant action, and administration of menthol via a nasal inhaler in humans has also been shown to cause nasal decongestion. a2a308cbdb It can be prepared from other volatile oils like geraniol and linalool by adding dilute acids (5% sulfuric acid) to them. a2a308cbdb

Menthyl acetate the smell and flavor of peppermint. It is the acetate ester of menthol. Menthyl acetate constitutes 3–5% of the volatile oil of *mentha piperita*, contributing Menthyl acetate is a natural monoterpene which contributes to the smell and flavor of peppermint. Menthyl acetate constitutes 3–5% of the volatile oil of *mentha piperita*, contributing to its smell and flavour. It is the acetate ester of menthol a2a308cbdb

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== Medical uses == a2a308cbdb Pulegone comprises 75% of the oil pressed from pennyroyal, which is cultivated for that purpose. Hydrogenation of pulegone gives menthone. Pulegone is also a precursor to menthofuran, another flavorant. a2a308cbdb == Extraction == a2a308cbdb == Effectiveness == a2a308cbdb

Terpin It is derived from sources such as turpentine, oregano, thyme, and eucalyptus. It was used in the United States in the late nineteenth century, but was removed from marketed medications in the 1990s after the Food and Drug Administration (FDA) found a lack of evidence of safety and effectiveness. Elixirs of terpin hydrate are still available with a prescription, but must be prepared by a compounding pharmacy. benzoin preparations, camphor, eucalyptol/eucalyptus oil, iodines, ipecac syrup, menthol/peppermint oil, pine tar preparations, potassium guaiacolsulfonate Terpin is an expectorant, used to loosen mucus in patients with bronchitis and related conditions. It is used as the hydrate (terpin·H₂O) a2a308cbdb

Moroccan cuisine A typical lunch begins with a. herbs in Moroccan cuisine include mint, parsley, coriander, oregano, peppermint, marjoram, verbena, sage and bay laurel a2a308cbdb

Synthetic repellents tend to be more effective and/or longer lasting than "natural" repellents. a2a308cbdb

Nootkatone for hours, in contrast to other plant-based oil repellants like citronella, peppermint oil, and lemongrass oil. It is nontoxic to humans, is an approved a2a308cbdb

For protection against ticks and mosquito bites, the U.S. Centers for Disease Control (CDC) recommends DEET, icaridin (picaridin, KBR 3023), oil of lemon eucalyptus (OLE), para-menthane-diol (PMD), IR3535 and 2-undecanone with the caveat that higher percentages of the active ingredient provide longer protection. a2a308cbdb

Menthol The main form of menthol occurring in nature is (–)-menthol, which is assigned the (1R,2S,5R) configuration. naturally in peppermint oil (along with a little menthone, the ester menthyl acetate and other compounds), obtained from *Mentha × piperita* (peppermint). Japanese Menthol is a monoterpenoid organic compound that occurs naturally in the oils of certain plants in the mint family, such as corn mint and peppermint. It is a white or clear waxy crystalline substance that is solid at room temperature and melts slightly above a2a308cbdb

== Biosynthesis == a2a308cbdb

Pulegone It is classified as a monoterpenoid, which means that it is an oxidized derivative of a terpene, a large class of naturally occurring C₁₀ hydrocarbons. occurring C₁₀ hydrocarbons. It is used in flavoring agents, Pulegone is a naturally occurring organic compound obtained from the essential oils of a variety of plants such as *Nepeta cataria* (catnip), *Mentha piperita*, and pennyroyal. Pulegone is a colorless oil with a pleasant odor similar to pennyroyal, peppermint, and camphor a2a308cbdb

(+)-Menthofuran is produced in plants such as peppermint from pulegone by the enzyme menthofuran synthase. a2a308cbdb An alpha-trans-dihydroxy derivative, (1R,2R,6S)-3-methyl-6-(prop-1-en-2-yl)cyclohex-3-ene-1,2-diol, possesses potent antiparkinsonian activity in animal models. a2a308cbdb It has been found to exhibit chemoprevention of mammary carcinogenesis (prevents breast cancer). a2a308cbdb == Structure == a2a308cbdb Peppermint extract is obtained through steam distillation, solvent extraction, and soxhlet extraction. a2a308cbdb == References == a2a308cbdb == Biosynthesis == a2a308cbdb Pulegone is a colorless oil with a pleasant odor similar to pennyroyal, peppermint, and camphor. It is used in flavoring agents, in perfumery, and in aromatherapy. a2a308cbdb Natural menthol exists as one pure stereoisomer, nearly always the (1R,2S,5R) form (bottom left corner of the diagram below). The eight possible stereoisomers are: a2a308cbdb

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