

Pdf free Optimisation of extraction of thymol from plectranthus (Download Only)

thymol also known as 2 isopropyl 5 methylphenol ipmp c 10 h 14 o is a natural monoterpenoid phenol derivative of p cymene isomeric with carvacrol found in oil of thyme and extracted from thymus vulgaris common thyme ajwain and various other plants as a white crystalline substance of a pleasant aromatic odor and strong antiseptic thymol improves digestion by relaxing smooth muscles prevents menstrual cramps attenuates respiratory problems and is an active ingredient used in food flavorings topical ointments various soaps toothpastes shampoos deodorants and mouthwashes shapiro et al 1994 manou et al 1998 abstract thymol is a natural volatile monoterpenoid phenol that is the main active ingredient of oil extracted from species thymus vulgaris commonly known as thyme and other plants such as ocimum gratissimum origanum carum copticum different species of the genus satureja oliveria decumbens vent and many others 2005 03 26 modify 2024 04 27 description thymol is a phenol that is a natural monoterpene derivative of cymene it has a role as a volatile oil component it is a member of phenols and a monoterpenoid it derives from a hydride of a p cymene chebi a phenol obtained from thyme oil or other volatile oils thymol 2 isopropyl 5 methylphenol belongs to the phenolic monoterpenes and mostly occurs in thyme species it is one of the main compounds of thyme essential oil both thymol and thyme essential oil have long been used in traditional medicine as expectorant anti inflammatory antiviral antibacterial and antiseptic agents mainly in the thymol is a naturally occurring phenol monoterpene derivative of cymene and isomer of carvacrol thymol 10 64 is one of the major constituent of essential oils of thyme thymus vulgaris lamiaceae a medicinal plant with several therapeutic properties sources and extraction thymol is commonly found in the oil of thyme a widely used culinary herb and in several other plants such as oregano and ajwain although it is named after thyme it is interesting to note that the concentration of thymol varies greatly among different thyme species thymol 2 isopropyl 5 methylphenol is the main monoterpene phenol occurring in essential oils isolated from plants belonging to the lamiaceae family thymus ocimum origanum and monarda genera and other plants such as those belonging to the verbenaceae scrophulariaceae ranunculaceae and apiaceae thymol is a dietary monoterpene phenolic compound which is isolated from a variety of plants including thymus vulgaris family laminaceae t serphyllum family laminaceae monarda fustulosa family laminaceae origanum vulgare family laminaceae carum copticum family apiaceae trachyspermum ammi family apiaceae lippia multiflo what is thymol thymol is found in thyme oil oil derived from thyme an herb with antimicrobial properties the botanical oil has a long history of antiseptic use and

egyptians used it for embalming europeans used it to soothe blistered skin during the black death and blackfoot native americans used it to treat mouth and throat infections what is thymol and where does it come from thymol is an essential oil but it possesses antimicrobial activity it s an active essential oil says clement choy there are other essential oils that have antimicrobial activity but thymol is probably one of the best thymol 2 isopropyl 5 methylphenol is the main monoterpene phenol found in thyme essential oil this compound has revealed several biological properties including antibacterial anti inflammatory and antioxidant activities thymol derived from nigella sativa ns has been investigated for its potential anti proliferative and anticancer properties especially its ability to suppress cyclin d1 and pcna expression which are crucial in the proliferation of cancer cells methods quantity value units method reference comment \square f h solid 280 kj mol ccb bertholon giray et al 1971 quantity value units method reference comment \square c h solid 5657 kj mol thymol chemically known as 2 isopropyl 5 methylphenol is a colorless crystalline monoterpene phenol it is one of the most important dietary constituents in thyme species formula c 10 h 14 o molecular weight 150 2176 iupac standard inchi inchi 1s c10h14o c1 7 2 9 5 4 8 3 6 10 9 11 h4 7 11h 1 3h3 iupac standard inchikey mgsrckzkzvbkft uhfffaoy sa n cas registry number 89 83 8 chemical structure this structure is also available as a 2d mol file or as a computed 3d sd file background a phenol obtained from thyme oil or other volatile oils it is used as a stabilizer in pharmaceutic preparations it has been used for its antiseptic antibacterial and antifungal actions and was formerly used as a vermifuge dorland 28th ed type small molecule groups approved structure 3d download similar structures weight a perennial wild shrub from the lamiaceae family and native to the mediterranean region thyme is considered an important wild edible plant studied for centuries for its unique importance in the food pharmaceutical and cosmetic industry thyme is loaded with phytonutrients minerals and vitamins thymus vulgaris an herb in the lamiaceae mint family it is a short bushy plant that is found all over the world although it is native to southern europe thymus vulgaris is commonly known as thyme thyme is often used as a spice to add flavor to food it is also sometimes used as a dietary supplement in capsule form or as an essential oil benefits thyme has a range of powerful medicinal effects thymol is one of a naturally occurring class of compounds known as biocides these are substances that can destroy harmful organisms

thymol wikipedia

Apr 04 2024

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pharmacological properties and molecular mechanisms of thymol

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thymol improves digestion by relaxing smooth muscles prevents menstrual cramps attenuates respiratory problems and is an active ingredient used in food flavorings topical ointments various soaps toothpastes shampoos deodorants and mouthwashes shapiro et al 1994 manou et al 1998

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thymol 2 isopropyl 5 methylphenol belongs to the phenolic monoterpenes and mostly occurs in thyme species it is one of the main compounds of thyme essential oil both thymol and thyme essential oil have long been used in traditional medicine as expectorant anti inflammatory antiviral antibacterial and antiseptic agents mainly in the

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thymol is a naturally occurring phenol monoterpene derivative of cymene and isomer of carvacrol thymol 10 64 is one of the major constituent of essential oils of thyme thymus vulgaris lamiaceae a medicinal plant with several therapeutic properties

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sources and extraction thymol is commonly found in the oil of thyme a widely used culinary herb and in several other plants such as oregano and ajwain although it s named after thyme it s interesting to note that the concentration of thymol varies greatly among different thyme species

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determination of thymol in commercial formulation essential

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thymol is a dietary monoterpene phenolic compound which is isolated from a variety of plants including thymus vulgaris family laminaceae t serphyllum family laminaceae monarda fustulosa family laminaceae origanum vulgare family laminaceae carum copticum family apiaceae trachyspermum ammi family apiaceae lippia multiflo

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what is thymol thymol is found in thyme oil oil derived from thyme an herb with antimicrobial properties the botanical oil has a long history of antiseptic use ancient egyptians used it for embalming europeans used it to soothe blistered skin during the black death and blackfoot native americans used it to treat mouth and throat infections

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what is thymol and where does it come from thymol is an essential oil but it possesses antimicrobial activity it s an active essential oil says clement choy there are other essential oils that have antimicrobial activity but thymol is probably one of the best

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thymol 2 isopropyl 5 methylphenol is the main monoterpene phenol found in thyme essential oil this compound has revealed several biological properties including antibacterial anti inflammatory and antioxidant activities

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thymol derived from nigella sativa ns has been investigated for its potential anti proliferative and anticancer properties especially its ability to suppress cyclin d1 and pcna expression which are crucial in the proliferation of cancer cells methods

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quantity value units method reference comment $C_{10}H_{14}O$ solid 280 kj mol ccb bertholon giray et al 1971 quantity value units method reference comment $C_{10}H_{14}O$ solid 5657 kj mol

pharmacological properties and molecular mechanisms of thymol

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thymol chemically known as 2 isopropyl 5 methylphenol is a colorless crystalline monoterpene phenol it is one of the most important dietary constituents in thyme species

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formula c 10 h 14 o molecular weight 150 2176 iupac standard inchi inchi 1s c10h14o c1 7 2 9 5 4 8 3 6 10 9 11 h4 7 11h 1 3h3 iupac standard inchikey mgsrczkzvbkft uhfffaoy sa n cas registry number 89 83 8 chemical structure this structure is also available as a 2d mol file or as a computed 3d sd file

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background a phenol obtained from thyme oil or other volatile oils it is used as a stabilizer in pharmaceutic preparations it has been used for its antiseptic antibacterial and antifungal actions and was formerly used as a vermifuge dorland 28th ed type small molecule groups approved structure 3d download similar structures weight

a focused insight into thyme biological chemical and

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a perennial wild shrub from the lamiaceae family and native to the mediterranean region thyme is considered an important wild edible plant studied for centuries for its unique importance in the food pharmaceutical and cosmetic industry thyme is loaded with phytonutrients minerals and vitamins

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thymus vulgaris an herb in the lamiaceae mint family it is a short bushy plant that is found all

over the world although it is native to southern europe thymus vulgaris is commonly known as thyme thyme is often used as a spice to add flavor to food it is also sometimes used as a dietary supplement in capsule form or as an essential oil

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benefits thyme has a range of powerful medicinal effects thymol is one of a naturally occurring class of compounds known as biocides these are substances that can destroy harmful organisms

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