

Foreverest Resources Ltd

alpha-Phellandrene

85%

Phellandrene is the name for a pair of organic compounds that have a similar molecular structure and similar chemical properties. α -Phellandrene and β -phellandrene are cyclic monoterpenes and are double-bond isomers. In α -phellandrene, both double bonds are endocyclic and in β -phellandrene, one of them is exocyclic. Both are insoluble in water, but miscible with ether. The phellandrenes are used in fragrances because of their pleasing aromas. The odor of β -phellandrene has been described as peppery-minty and slightly citrusy. It is colorless to light yellow oily liquid with peppermint aroma. Right-handed body exists in cinnamon oil, ginger oil, elemi oil, cumin oil etc. Left-handed body exists in eucalyptus oil, star anise oil, gump couch oil, laurel oil, pepper oil, etc. α -Phellandrene was named after Eucalyptus phellandra, now called Eucalyptus radiata, from which it can be isolated. It is also a constituent of the essential oil of Eucalyptus dives.

Substance Identification

Synonyms

α -Phellandrene | p-mentha-1,5-diene | Menthadiene

CAS	N/A
EINECS	202-792-5
FEMA	N/A
HS.CODE	29021990
Molecular Formula	C10H16
Molecular Weight	136.23

GRAS, FEMA, @LD50

5700mg/kg

Application & Uses

- Used as chiral catalysis
- Used in synthetic fragrance and in all kinds of functional and alcoholic perfumes and in fruit imitations
- Used as expectorant
- Used as intermediate of natural anti-cancer drugs like Eleutherobin
- Used as ingredient of Natural insecticides
- Used as Functional Material

Features & Benefits

- A left-handed and a right-handed body two isomer. Right-handed body boiling point of 66 ~ 68 °C, the left-hand body boiling point 58 and 59 °C (2133 pa). Flash point, 49 °C. Soluble in ethanol and ethyl ether, insoluble in water. Right-handed body exists in cinnamon oil, ginger oil, elemi oil, cumin oil etc. Left-handed body exists in eucalyptus oil, star anise oil, gump couch oil, laurel oil, pepper oil, etc.

Sales Specification

ITEM	VALUE
Appearance	Colorless or slightly yellow oily liquid.
alpha-Phellandrene Content, @GC, %	85 min
GRAS, FEMA, @LD50	5700mg/kg

Similar Specs

[Beta Phellandrene](#)

[alpha-Phellandrene](#)

Package

- Galvanized Iron Drum (new), 25kg net each

GHS Hazard Statements

H-Code	H226/304/315/317/361/411
P-Code	P201/202/210/233/240/241/242//243/261/264/272/273/280
Response	P301+P310 P303+P361+P353 P308+P313 P331 P333+P313 P370+P378 P391
Storage	P403+P235 P405
Disposal	P501

Storage

- do not re-use the empty container. Store at 6°C~8°C
- this substance is easily oxidized, need to sealed storage
- it is good general practice to store in closed, preferably full, containers away from heat sources, and protected from extremes of temperature

Relation Products

- [para Cymene](#)

Relation Articles

- [Business Value of \$\alpha/\beta\$ Phellandrene in Agricultural Application](#)
- [Dipentene, an effective, safe, biodegradable cleaning and degreasing material](#)
- [Ten questions concerning air fresheners and indoor built environments](#)
- [What are the natural terpenes](#)
- [The composition of the essential oil](#)

Remark

The above information is believed to be accurate and presents the best explanation currently available to us. We assume no liability resulting from above content. The technical standards are formulated and revised by customers' requirement and us, if there are any changes, the latest specification will be executed and confirmed in the contract.