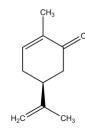
Chemical profile – S-(+)-Carvone

Basic information

IUPAC name: (S)-5-isopropenyl-2-methyl-2-cyclohexenone **Other names:** (S)-(+)-p-mentha-6,8-dien-2-one, D-carvone

Molecular formula: C₁₀H₁₄O Molecular weight: 150.22 g mol⁻¹



Physical Properties

Appearance: Light yellow liquid Relative density: 0.960 g cm⁻³
Melting point: Not available
Boiling point: 227 - 230 °C
Flash point: 98 °C - closed cup



Occurrence and uses

S-(+)-carvone is the found in caraway seeds (*Carum carvi*) and dill (*Anethum graveolens*). It is used as an additive in the food and fragrance industries, and as a stomachic and carminative in a number of pharmaceutical formulations. S-(+)-carvone is also a good potato sprouting inhibitor, and so is used to aid their long term storage. Cavone (R and S enantiomers) is antimicrobial and is used in aromatherapy massage treatment for several skin disorders and nervous tensions,¹

1. See Learn Chemistry Wiki 'Substance: Carvone'

Links to curriculum

Stereoisomers

Functional groups: Carbonyl, alkenes

Use in practical experiments: Learn Chemistry resource 'Properties of the carvones'

R-(-)-carvone







S-(+)-carvone