

Product Data Sheet

Product Name: Terpinolene

Cat. No.: GC41498

Chemical Properties

Cas. No. 586-62-9

Formula C₁₀H₁₆

M.Wt 136.2

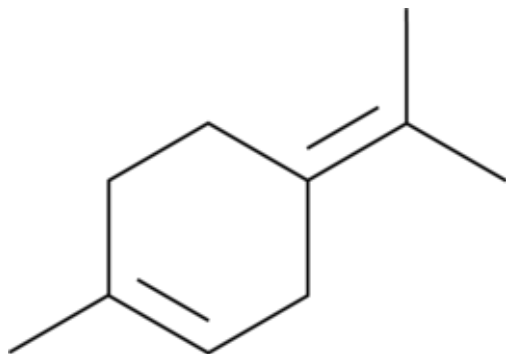
Solubility Chloroform: Slightly Soluble, Methanol: Slightly Soluble

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Terpinolene is a monoterpene found in the essential oils of various plants, including *C. sativa*, and has diverse biological activities including antiproliferative and antioxidant properties. It inhibits expression of AKT1 in Jurkat and K562 cells by 95% when used at a concentration of 0.05% and inhibits the growth of K562 cells when used at a concentration of 0.01%. Terpinolene also inhibits the growth of HT-29, Hep-2, NCI-292, and HL-60 cells (IC₅₀s = 16.7, 13.7, 17.4, and 28.8 µg/ml, respectively). In cultured human blood cells, terpinolene (10-75 mg/L) increases total antioxidant capacity (TAC), but decreases cell viability when used at a concentration of ≥150 mg/L.

Caution: Product has not been fully validated for medical applications. For research use only.

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