

Product Data Sheet

Product Name: p-Cymene

Cat. No.: GC44582

Chemical Properties

Cas. No. 99-87-6

SMILES CC(C)C1=CC=C(C)C=C1

Formula C₁₀H₁₄

M.Wt 134.2

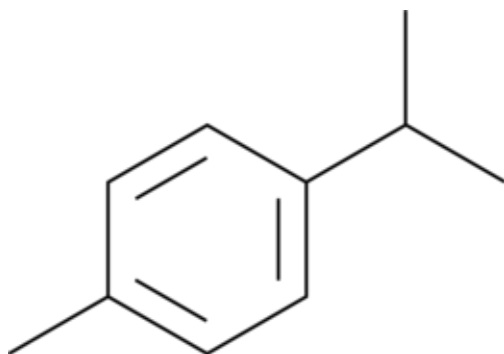
Solubility DMSO : 100 mg/mL (745.05 mM; Need ultrasonic)

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

p-Cymene is a monoterpene that is found in a variety of plants, including *C. sativa*, and has diverse biological activities, including antimicrobial, anticancer, antioxidant, anti-inflammatory, antinociceptive, and anxiolytic properties. p-Cymene inhibits the growth of *S. typhimurium*, *E. coli*, *L. monocytogenes*, *S. epidermidis*, and *S. aureus* with MIC values ranging from 0.266 to 0.608% v/v. It decreases the invasive activity of HT-1080 human fibrosarcoma cells in vitro by 87% when used at a concentration of 600 µM. In mouse hippocampus, p-Cymene (50 mg/kg, i.p.) reduces lipid peroxidation and nitrite content by 65.5 and 71.2%, respectively, and increases superoxide dismutase (SOD) and catalase activities by 22.7 and 119.3%, respectively, compared to vehicle control animals. Formulations containing p-cymene have been used as flavoring agents.

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

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