>>**Entry Name: Isopropylbenzene,** 8CI
ENTRY UNDER REVIEW
Synonym(s): 1-Methylethylbenzene, 9CI. Cumene. Cumol. 2-Phenylpropane

CAS Registry Number: 98-82-8

$PhCH(CH_3)_2$

Molecular Formula: C_9H_{12}
Molecular Weight: 120.194
Accurate Mass: 120.0939
Percentage Composition: C 89.94%; H 10.06%
Biological Source: Trace constit. of ginger oil (*Zingiber officinale*)
Use/Importance: Narcotic agent. Feedstock for major route for manuf. of Phenol BLS38-K and Acetone DFS24-J *via* 1-Methyl-1-phenylethyl hydroperoxide KLP52-Q. Important industrial chemical, USA production in 1999 3.49 million tons
Physical Description: Liq.
Melting Point: Mp –96.9°
Boiling Point: Bp 152-153°
Density: d_4^{20}0.86
Hazard & Toxicity: Eye and mucous membrane irritant. Potential narcotic action at high vapour conc. CNS depressant. LD_{50} (rat, orl) 1400 mg/kg; LD_{50}(rat, ihl) 8000 ppm (4 h exposure)

Aldrich: 18579-5
Fluka: 28230
Sigma: I0397
Supelco: 44-2630

References:

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