
Product Data Sheet

Product Name: 2,3-Dimethyl-2,3-diphenylbutane

Cat. No.: GC61921

Chemical Properties

Cas. No. 1889-67-4

SMILES CC(C)(C1=CC=CC=C1)C(C)(C2=CC=CC=C2)C

Formula $C_{18}H_{22}$ M.Wt 238.37

Solubility Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

2,3-Dimethyl-2,3-diphenylbutane is one of the decomposition products of Dicumylperoxide (DCP). Diallyl orthophthalate (DAOP) is a reactive plasticizer initiated by 2,3-dimethyl-2,3-diphenylbutane for improving polyphenylene oxide (PPO) processing [1][2].

References:

[1]. Di Somma I, et al. Kinetic and chemical characterization of thermal decomposition of dicumylperoxide in cumene. J Hazard Mater. 2011;187(1-3):157-163.

[2]. Wang H, et al. Improved Processing and Properties for Polyphenylene Oxide Modified by Diallyl Orthophthalate Prepolymer. Polymers (Basel). 2019;11(12):2016. Published 2019 Dec 5.

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

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