

Product Data Sheet

Product Name: 1-Hexanol-d11

Cat. No.: GC72606

Chemical Properties

Cas. No. 2159-18-4

Formula $C_6H_3D_{11}O$

M.Wt 113.24

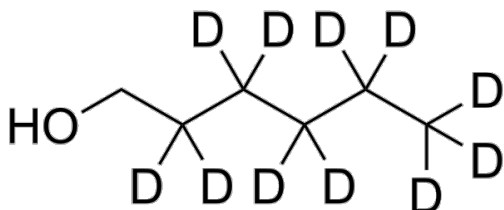
Solubility

Storage -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

1-Hexanol-d11 is the deuterium labeled 1-Hexanol[1]. 1-Hexanol, a primary alcohol, is a surfactant that can be employed in industrial processes to enhance interfacial properties[2]. 1-Hexanol uncouples mitochondrial respiration by a non-protonophoric mechanism[3].

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

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Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].

References:

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.
- [2]. Cuong V Nguyen, et al. Surface potential of 1-hexanol solution: comparison with methyl isobutyl carbinol. J Phys Chem B. 2013 Jun 27;117(25):7615-20.
- [3]. M Canton, et al. The nature of uncoupling by n-hexane, 1-hexanethiol and 1-hexanol in rat liver mitochondria. Biochim Biophys Acta. 1996 May 20;1274(1-2):39-47.

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