
Product Data Sheet

Product Name: Triclosan-methyl-d3

Cat. No.: GC67943

Chemical Properties

Cas. No. 1020720-00-6

Formula $C_{13}H_6D_3Cl_3O_2$ M.Wt 306.59

Solubility 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

Triclosan-methyl-d3 is the deuterium labeled Triclosan-methyl. Triclosan-methyl is a transformation product of triclosan. Triclosan is a bactericide in personal care products such as toothpaste, shampoos, and soaps. Triclosan is also a stabilizing agent in a multitude of detergents and cosmetics^[1].

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].

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.

[2]. Xijuan Chen, et al. Biodegradation of triclosan and formation of methyl-triclosan in activated sludge under aerobic conditions. *Chemosphere*. 2011 Jul;84(4):452-6.

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

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