

Product Data Sheet

Product Name: Castor oil

Cat. No.: GC65560

Chemical Properties

Cas. No. 8001-79-4

Formula $C_{57}H_{104}O_9$ M.Wt 89.91

Solubility Ethanol : 4.55 mg/mL (50.61 mM; Storage Store at -20°C
Need ultrasonic)

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

Castor oil

Background

Castor oil is a natural triglyceride and a solvent. Castor oil has a laxative effect and induces labor in

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

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pregnant females. Castor oil can be used as a solvent, co-solvent, stabilizing agent and polyol for the formation of polymer-nanoparticle composites[1][2].

Castor oil (CO) is an inedible vegetable oil that has been employed extensively as a bioresource material for the synthesis of biodegradable polymers, cosmetics, lubricants, biofuels, coatings and adhesives. Castor oil is used in medicine, pharmaceuticals and biorefineries, due to its versatile chemistry[1].

Castor oil is a natural triglyceride which has a laxative effect and induces labor in pregnant females. When given castor oil, wild-type mice respond with a strong diarrhea, starting about 30 min after application. The laxative effect lasts for about 2 h[2].

[1]. Mensah MB, et al. Castor oil: a suitable green source of capping agent for nanoparticle syntheses and facile surface functionalization. R Soc Open Sci. 2018 Aug 15;5(8):180824.

[2]. Tunaru S, et al. Castor oil induces laxation and uterus contraction via ricinoleic acid activating prostaglandin EP3 receptors. Proc Natl Acad Sci U S A. 2012 Jun 5;109(23):9179-84.

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