

Product Name: 2-Hydroxypropyl- β -cyclodextrin

Catalog No.: 0708

Batch No.: 13

CAS Number: 128446-35-5

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $(C_6H_9O_5)_7(C_3H_7O)n$

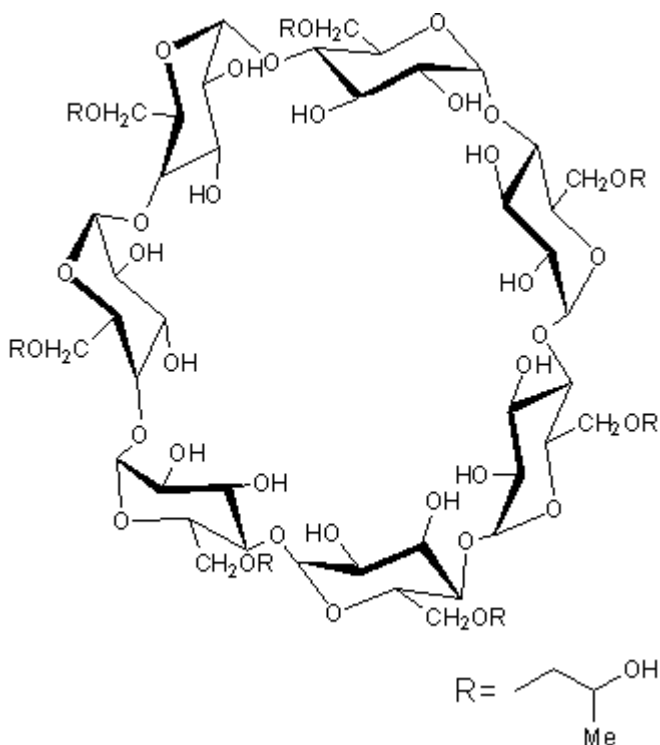
Batch Molecular Weight: 1400

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

Optical Rotation: $[\alpha]_D = +133$ (Concentration = 1, Solvent = Water)

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

The most widely used modified cyclodextrin, the lipophilic cavity formed by 7 glucose units. Drug solubility in water is greatly enhanced by complexing with HBC.

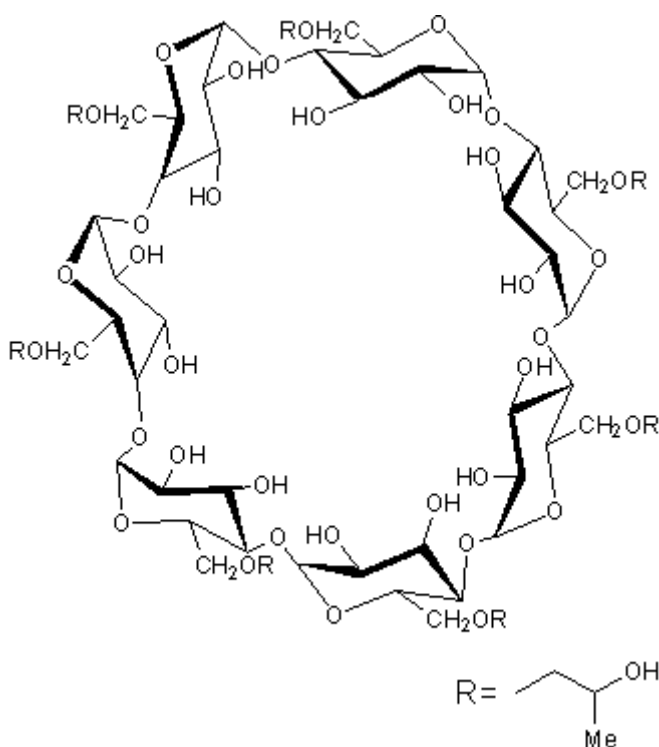
Physical and Chemical Properties:

Batch Molecular Formula: $(C_6H_9O_5)_7(C_3H_7O)n$

Batch Molecular Weight: 1400

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 100 mM

This product has an average molecular weight of 1400

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Frijlink (1991) The effects of cyclodextrins on the disposition of intravenously injected drugs in the rat. *Pharm.Res.* **8** 380. PMID: 2052529.

Pitha et al (1986) Hydroxypropyl- β -cyclodextrin: preparation and characterisation; effects on solubility of drugs. *Int.J.Pharmacol.* **29** 73.

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