

Product Data Sheet

Product Name: β -Cyclodextrin

Cat. No.: GC45228

Chemical Properties

Cas. No. 7585-39-9

Formula C₄₂H₇₀O₃₅

M.Wt 1135

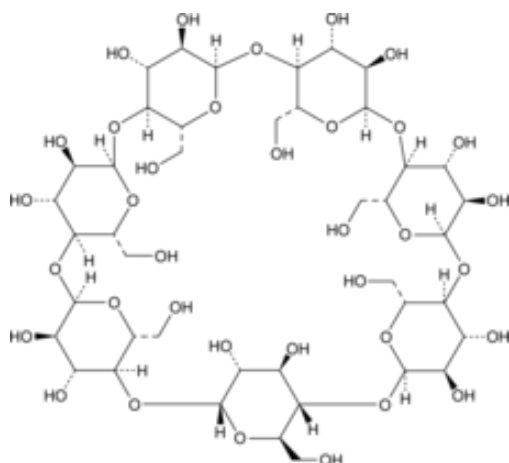
Solubility DMSO : 100 mg/mL (88.11 mM);
H₂O : >25 mg/mL (22.0264
mM; Need ultrasonic)

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

β -Cyclodextrin (β -CD) is a cyclic oligosaccharide that contains seven D-(+)-glucopyranose units and has been used to improve the aqueous solubility of various compounds, especially those containing a phenyl group. The circular arrangement of its glucose units produces a torus-shaped ring configuration in which the CH₂ groups and ether linkages of the molecule face the hollow interior, resulting in a nonpolar, hydrophobic cavity and a polar, hydrophilic exterior. When combined in solution with other compounds, the nonpolar aromatic portions of that compound interact with the nonpolar interior of the β -CD molecule, thus isolating the aromatic portion of the molecule from the

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water and thereby increasing its aqueous solubility.

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