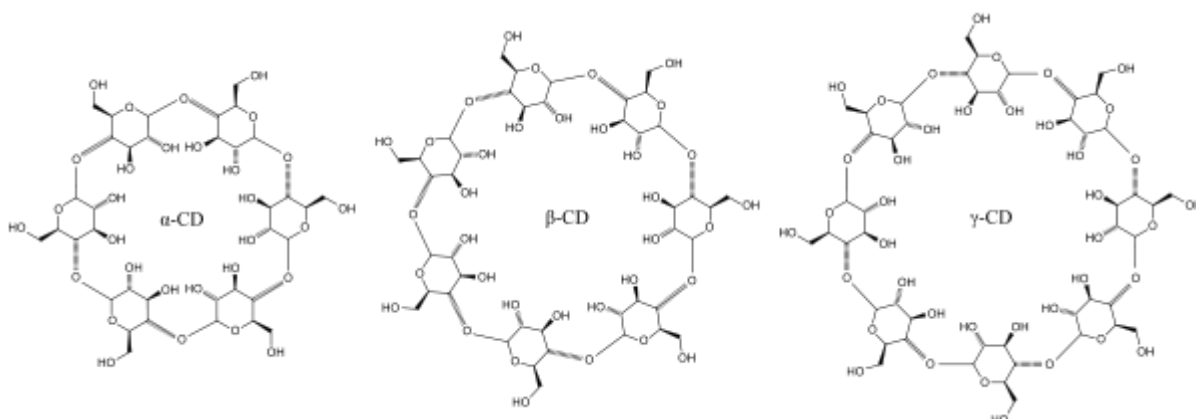


Cyclodextrins

Products Information

Catalog Number :	09077A, 50g	AZ3161, 25g	09350A, 1g
Name :	α -Cyclodextrin alpha-Cyclodextrin alpha -Schardinger dextrin Cyclooctaamylose	β -Cyclodextrin hydrate beta-Cyclodextrin hydrate beta-Schardinger dextrin Cycloheptaamylose CD	γ -Cyclodextrin hydrate gamma-Cyclodextrin hydrate gamma-Schardinger dextrin Cyclooctaamylose
CAS Number	10016-20-3 MW972.86	68168-23-0 MW : 1135.01	17465-86-0
Appearance :	Powder	Powder	Powder
Solubility: (in water , at 25°C)	145 g/L	Purity: >99% 18.5 g/L	22.3 g/100m l

Storage: Ambient Temperature.



Cyclodextrins are composed of 5 or more glucose units (α -D-glucopyranoside units linked 1->4), as in amylose (a fragment of starch).

Cyclodextrins are able to form stable aqueous complexes with many chemicals, guesting hydrophobic molecules thanks to their unique structure (a toroid, which interior is not hydrophobic, but considerably less hydrophilic than the aqueous environment, and which two openings expose to the solvent secondary and primary hydroxyl groups respectively, that impart cyclodextrins (or their complexes) water solubility).

Applications:

Chelation/Complexation
Cell Culture
Biochemistry - solubilization

FT-AZ3161

References - β -Cyclodextrin:

Cyclodextrin-catalyzed hydrolysis of enantiomeric esters showing stereoselectivity: Y. Ihara, et al; Bull. Chem. Soc. Jpn. 59, 6, 1901-05(1986).

The kinetic effects of water and of cyclodextrins on Diels-Alder reactions: Sangwan N.K. et al. :J.Chem. Soc.,Perkin Trans. 11, 9, 1223-27(1989).

Selective ring-opening reaction of epoxides with sodium borohydride in the presence of cyclodextrins in aqueous media: Y. Hu et al.; Bull. Chem. Soc. Jpn. 64, 6, 1884-1888(1991).

Safety:

24/25: Avoid contact with skin and eyes.

Ordering information

Catalog size quantities and prices may be found at <http://www.fluoprobes.com>

Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : FluoProbes® / Interchim; Hotline : +33(0)4 70 03 73 06

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