



Product Information

α -Cyclodextrin, hydrate (1:x)

Cat. No.: X24-03-LY218

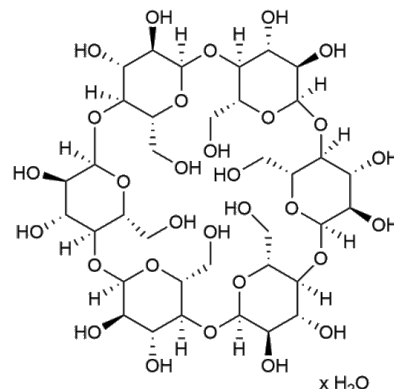
Size: 5 g; 10 g; 25 g; 100 g; 500 g; 1 kg

MDL: MFCD00150804

CAS Number: 51211-51-9

PubChem CID: 60161466

Synonym: 51211-51-9; α -Cyclodextrin hydrate; (1S, 3R, 5R, 6S, 8R, 10R, 11S, 13R, 15R, 16S, 18R, 20R, 21S, 23R, 25R, 26S, 28R, 30R, 31R, 32R, 33R, 34R, 35R, 36R, 37R, 38R, 39R, 40R, 41R, 42R)-5, 10, 15, 20, 25, 30-Hexakis(hydroxymethyl)-2, 4, 7, 9, 12, 14, 17, 19, 22, 24, 27, 29-dodecaoxaheptacyclo[26.2.2.2.2.3, 6.28, 11.213, 16.218, 21.223, 26]dotetracontane-31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42-dodecol hydrate



This product is for research use only and is not intended for diagnostic use.

Product Information

Description	α -Cyclodextrin, hydrate (1:x) is a cyclic oligosaccharide molecule.
Molecular Formula	$C_{36}H_{60}O_{30} \cdot xH_2O$
IUPAC Name	(1S, 3R, 5R, 6S, 8R, 10R, 11S, 13R, 15R, 16S, 18R, 20R, 21S, 23R, 25R, 26S, 28R, 30R, 31R, 32R, 33R, 34R, 35R, 36R, 37R, 38R, 39R, 40R, 41R, 42R)-5, 10, 15, 20, 25, 30-Hexakis(hydroxymethyl)-2, 4, 7, 9, 12, 14, 17, 19, 22, 24, 27, 29-dodecaoxaheptacyclo[26.2.2.2.2.3, 6.28, 11.213, 16.218, 21.223, 26]dotetracontane-31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42-dodecol;hydrate
InChI	InChI=1S/C36H60O30.H2O/c37-1-7-25-13(43)19(49)31(55-7)62-26-8(2-38)57-33(21(51)15(26)45)64-28-10(4-40)59-35(23(53)17(28)47)66-30-12(6-42)60-36(24(54)18(30)48)65-29-11(5-41)58-34(22(52)16(29)46)63-27-9(3-39)56-32(61-25)20(50)14(27)44;/h7-54H, 1-6H2;1H2/t7-, 8-, 9-, 10-, 11-, 12-, 13-, 14-, 15-, 16-, 17-, 18-, 19-, 20-, 21-, 22-, 23-, 24-, 25-, 26-, 27-, 28-, 29-, 30-, 31-, 32-, 33-, 34-, 35-, 36-;/m1./s1
InChI Key	UQIQLAUJPPQBJR-HAPKRNSXSA-N
Canonical SMILES	C(C1C2C(C(C(O1)OC3C(OC(C(C3O)O)OC4C(OC(C(C4O)O)OC5C(OC(C(C5O)O)OC6C(OC(C(C6O)O)OC7C(OC(O2)C(C7O)O)CO)CO)CO)CO)CO)O)O.O
Isomeric SMILES	C([C@@H]1[C@@H]2[C@@H]([C@H]([C@H](O1)O[C@@H]3[C@H](O[C@@H]([C@@H]([C@H]3O)O)O[C@@H]4[C@H](O[C@@H]([C@@H]([C@H]4O)O)O[C@@H]5[C@H](O[C@@H]([C@@H]([C@H]5O)O)O[C@@H]6[C@H](O[C@@H]([C@@H]([C@H]6O)O)O[C@@H]7[C@H](O[C@H](O



2)[C@@H]([C@H]7O)O)CO)CO)CO)CO)O)O)O.O

Form	Solid
Purity	≥98%
Applications	α-Cyclodextrin, hydrate (1:x) can be used as an encapsulant in drug delivery systems to improve drug stability and bioavailability.
Storage	Store at -20°C.

Safety Information

Personal Protective Equipment	Gloves, eyeshields, N95 mask
Hazard Statements	H302-H315-H319-H335