



Product Information

Maltoheptaose hydrate, Purity≥95%

Cat. No.: X25-01-WXX271

Size: 25 mg; 50 mg; 100 mg; 250 mg

CAS Number: 207511-07-7

Compound CID: 16211831

Synonym: 207511-07-7; MALTOHEPTAOSE HYDRATE 90; MALTOHEPTAOSE HYDRATE 90; Maltoheptaose hydrate, >=80%; DTXSID10583490

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

Product Information

Description	Maltoheptaose hydrate is a hydrate of maltoheptaose, consisting of seven glucose units linked by alpha-1,4-glycosidic bonds.
Molecular Weight	1153.00 (anhydrous)
Molecular Formula	C ₄₂ H ₇₂ O ₃₆ ·xH ₂ O
IUPAC Name	(2R,3R,4S,5S,6R)-2-[(2R,3S,4R,5R,6R)-6-[(2R,3S,4R,5R,6R)-6-[(2R,3S,4R,5R,6R)-6-[(2R,3S,4R,5R,6R)-6-[(2R,3S,4R,5R,6R)-4,5-dihydroxy-2-(hydroxymethyl)-6-[(2R,3S,4R,5R,6R)-4,5,6-trihydroxy-2-(hydroxymethyl)oxan-3-yl]oxyoxan-3-yl]oxy-4,5-dihydroxy-2-(hydroxymethyl)oxan-3-yl]oxy-4,5-dihydroxy-2-(hydroxymethyl)oxan-3-yl]oxy-4,5-dihydroxy-2-(hydroxymethyl)oxane-3,4,5-triol;hydrate
InChI	InChI=1S/C42H72O36.H2O/c43-1-8-15(50)16(51)24(59)37(67-8)74-31-10(3-45)69-39(26(61)18(31)53)76-33-12(5-47)71-41(28(63)20(33)55)78-35-14(7-49)72-42(29(64)22(35)57)77-34-13(6-48)70-40(27(62)21(34)56)75-32-11(4-46)68-38(25(60)19(32)54)73-30-9(2-44)66-36(65)23(58)17(30)52;/h8-65H,1-7H2;1H2/t8-,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?,37-,38-,39-,40-,41-,42-;/m1./s1
InChI Key	QBUKDCVGFUMISC-VPMWRFTJSA-N
Canonical SMILES	C(C1C(C(C(C(O1)OC2C(OC(C(C2O)O)OC3C(OC(C(C3O)O)OC4C(OC(C(C4O)O)OC5C(OC(C(C5O)O)OC6C(OC(C(C6O)O)OC7C(OC(C(C7O)O)O)CO)CO)CO)CO)CO)O)O)O)O
Isomeric SMILES	C([C@@H]1[C@H]([C@@H]([C@H]([C@H](O1)O[C@@H]2[C@H](O[C@@H]([C@@H]([C@H]2O)O)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](OC([C@@H]([C@H]7O)O)O)CO)CO)CO)CO)CO)O)O)O



Form	Solid
Purity	≥95%
Applications	Maltoheptaose hydrate is used in the food industry as a sweetener and functional food additive.
Storage	Store at -20°C.
