



>>Entry Name: Maltohexaose, 8CI

ENTRY UNDER REVIEW

Synonym(s): *O*- α -D-Glucopyranosyl-(1 $\rightarrow$ 4)-[*O*- α -D-glucopyranosyl-(1 $\rightarrow$ 4)]₄-D-glucose, 9CI. Amylohexaose

CAS Registry Number: 34620-77-4

As Maltoheptaose, FTV83-F with
 $n = 4$

Molecular Formula: C₃₆H₆₂O₃₁

Molecular Weight: 990.867

Accurate Mass: 990.327515

Percentage Composition: C 43.64%; H 6.31%; O 50.06%

Source/Synthesis: Constit. of corn starch. Amylolysis prod. from starch

Use/Importance: Maltooligosaccharide mixtures are important food additives (sweeteners, gelling agents and viscosity modifiers)

Optical Rotation: $[\alpha]_{\text{D}}^{25} +182$ (c, 1 in H₂O)

Aldrich: 28404-1

Fluka: 63416

Sigma: M7878

Supelco: R47-4120

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 311B, (*nmr*)

Whistler, R.L. *et al.*, *J.A.C.S.*, 1955, **77**, 5761, (*isol*)

Beadle, J.B., *J. Agric. Food Chem.*, 1969, **17**, 904, (*glc*)

Robyt, J.F. *et al.*, *J. Biol. Chem.*, 1970, **245**, 3917

Friebolin, H. *et al.*, *Makromol. Chem.*, 1976, **177**, 845, (*cmr*)