



Fluka: 39915
Sigma: H0513

>>>**Derivative:** Heneicosa-Me

CAS Registry Number: 55216-11-0

Molecular Formula: C₆₃H₁₁₂O₃₅
Molecular Weight: 1429.557
Accurate Mass: 1428.698425
Percentage Composition: C 52.93%; H 7.90%; O 39.17%
Use/Importance: Enantioselective stationary phase for hplc and glc resolutions
Physical Description: Cryst. (cyclohexane or H₂O)
Melting Point: Mp 88-89°. Mp 156-158°
Optical Rotation: [α]_D +157 (CHCl₃)

>>>**Derivative:** Poly-*O*-(2-hydroxypropyl)
Synonym(s): Hydroxypropyl- β -cyclodextrin

CAS Registry Number: 94035-02-6

Use/Importance: Improves solubility of drugs in plasma by clathrate formation
Physical Description: Powder
Optical Rotation: [α]_D²³ +130 (c, 1 in H₂O)
Solubility: V. sol. H₂O, EtOH; spar. sol. Me₂CO
Other Data: Props. refer to a typical prepn. contg. 8-12 CH₂CH(OH)CH₃ groups per cyclodextrin molecule. A higher degree of substn. can apparently be obt.
Aldrich: 38914-5

>>>**Derivative:** 6,6',6'',6''',6''',6''',6''''-Heptadeoxy
Synonym(s): Heptakis(6-deoxy)cyclomaltoheptaose

CAS Registry Number: 51515-89-0

Molecular Formula: C₄₂H₇₀O₂₈
Molecular Weight: 1022.998
Accurate Mass: 1022.40537
Percentage Composition: C 49.31%; H 6.90%; O 43.79%
Melting Point: Mp 269.5-271.5°
Optical Rotation: [α]_D +112 (c, 0.9 in Py)

>>>**Derivative:** 6-*O*- α -D-Glucopyranosyl
Synonym(s): *O*- α -D-Glucopyranosyl-(1 $\rightarrow$ 6^A)- β -cyclodextrin, 9CI

CAS Registry Number: 92517-02-7

Molecular Formula: C₄₈H₈₀O₄₀
Molecular Weight: 1297.136
Accurate Mass: 1296.4226
Percentage Composition: C 44.45%; H 6.22%; O 49.34%
Source/Synthesis: Isol. from commercial starch syrup (Celdex™)
Optical Rotation: [α]_D²⁵ +178 (c, 0.3 in H₂O)

>>>**Derivative:** 2,2',2'',2''',2''',2''',2''''-Heptaepimer
Synonym(s): β -Cyclomannin. Cycloheptakis-(1 $\rightarrow$ 4)-(α -D-mannopyranose)

CAS Registry Number: 130322-66-6

Molecular Formula: C₄₂H₇₀O₃₅
Molecular Weight: 1134.994
Accurate Mass: 1134.369775
Percentage Composition: C 44.45%; H 6.22%; O 49.34%
Optical Rotation: [α]_D²³ +47.4 (c, 0.3 in H₂O)

References: