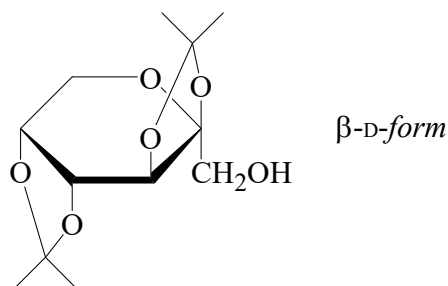




>>Entry Name: 2,3:4,5-Di-*O*-isopropylidene-fructopyranose

Synonym(s): 2,3:4,5-Bis-*O*-(1-methylethylidene)fructopyranose, 9CI



Molecular Formula: C₁₂H₂₀O₆

Molecular Weight: 260.286

Accurate Mass: 260.12599

Percentage Composition: C 55.37%; H 7.74%; O 36.88%

Calculated Log P Data: Log P 0.36 (calc)

>>Variant: β -D-form

CAS Registry Number: 20880-92-6

Type of Compound Code(s): AF1700

Molecular Formula: C₁₂H₂₀O₆

Molecular Weight: 260.286

Accurate Mass: 260.12599

Percentage Composition: C 55.37%; H 7.74%; O 36.88%

Physical Description: Needles (Et₂O/pentane)

Melting Point: Mp 97°

Optical Rotation: [α]_D²³ -24.2 (c, 0.6 in CHCl₃)

Sigma: D1018

>>Derivative: Sulfamoyl

Synonym(s): Topiramate, BAN, INN, USAN. Topamax. MCN 4853. RWJ 17021

CAS Registry Number: 97240-79-4

Type of Compound Code(s): XA1400

Molecular Formula: C₁₂H₂₁NO₈S

Molecular Weight: 339.366

Accurate Mass: 339.098789

Percentage Composition: C 42.47%; H 6.24%; N 4.13%; O 37.72%; S 9.45%

Use/Importance: Anticonvulsant

Physical Description: Cryst. (EtOAc/hexane)

Development Status: Launched 1995 (UK)

Melting Point: Mp 125-126°

Optical Rotation: [α]_D²³ -34 (c, 0.4 in MeOH)

>>Derivative: Dimethylsulfamoyl

CAS Registry Number: 106881-33-8

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 57-58°

Optical Rotation: [α]_D²³ -31.3 (c, 0.31 in MeOH)

>>Derivative: 1-Triflyl

Molecular Formula: C₁₃H₁₉F₃O₈S

Molecular Weight: 392.349

Accurate Mass: 392.075274

Percentage Composition: C 39.80%; H 4.88%; F 14.53%; O 32.62%; S 8.17%

Melting Point: Mp 36-38.5°

Optical Rotation: [α]_D -28.5 (c, 1.03 in CHCl₃)