«beta»-D-Glucopyranose, 1,2,3,4,6-pentakis-O-(trimethylsilyl)-

Other names: Glucopyranoside, trimethylsilyl 2,3,4,6-tetrakis-O-(trimethylsilyl)-, «beta»-D-
1,2,3,4,6-Pentakis-O-(trimethylsilyl)-«beta»-D-Glucopyranose
«beta»-D-Glucopyranose, TMS
«beta»-Glucopyranose, TMS
«beta»-Glucose, TMS
«beta»-D-(+)-Glucopyranose, pentakis(trimethylsilyl) ether
«BETA»-d-glucopyranose, 5tms derivative

Inchi: InChI=1S/C21H52O6Si5/c1-28(2,3)22-16-17-18(24-29(4,5)6)19(25-30(7,8)9)20(26-31(10

InchiKey: PPFHNIVPOLWPCF-JRSUCEMESA-N

Formula: C21H52O6Si5

SMILES: C[Si](C)(C)OCC1OC(O[Si](C)(C)C)C(O[Si](C)(C)C)C(O[Si](C)(C)C)C1O[Si](C)(C)C

Mol. weight [g/mol]: 541.06

CAS: 2775-90-8

Physical Properties

Property code	Value	Unit	Source
log10ws	5.66		Crippen Method
logp	6.075		Crippen Method
rinpol	1971.30		NIST Webbook
rinpol	1931.00		NIST Webbook
rinpol	1931.00		NIST Webbook
rinpol	1930.00		NIST Webbook
rinpol	1930.00		NIST Webbook
rinpol	1931.00		NIST Webbook
rinpol	1971.30		NIST Webbook
ripol	1972.00		NIST Webbook

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2775908&Units=SI

Legend

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
rinpol:	Non-polar retention indices
ripol:	Polar retention indices