«beta»-D(+)-Glucose (Dextrose), pyranose, TMS

Inchi: InChI=1S/C20H50O6Si5/c1-27(2,3)22-16-17(23-28(4,5)6)19(25-30(10,11)12)21-20(26-31

InchiKey: DMYXNOJXHNOHDN-NLNRRPOYSA-N

Formula: C20H50O6Si5

SMILES: C[Si](C)(C)OC1OC(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]: 527.03

Physical Properties

Property code	Value	Unit	Source
log10ws	5.58		Crippen Method
logp	6.032		Crippen Method
rinpol	2025.00		NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R440914&Units=SI

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

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

Legend

log10ws: Log10 of Water solubility in mol/l

logp: Octanol/Water partition coefficient

rinpol: Non-polar retention indices

Latest version available from:

https://www.chemeo.com/cid/55-744-5/beta-D-Glucose-Dextrose-pyranose-TMS.pdf

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