

Ribitol, 1,2,3,4,5-pentakis-O-(trimethylsilyl)-

Other names:	1,2,3,4,5-Pentakis-O-(trimethylsilyl)ribitol Ribitol, 5TMS Ribitol, (pentakis-TMS)- Ribitol, TMS Ribitol, 5tms derivative
Inchi:	InChI=1S/C20H52O5Si5/c1-26(2,3)21-16-18(23-28(7,8)9)20(25-30(13,14)15)19(24-29(10,11)12)17
InchiKey:	SUZLPERYXSOGNY-ACDBMABISA-N
Formula:	C ₂₀ H ₅₂ O ₅ Si ₅
SMILES:	C[Si](C)(C)OCC(O[Si](C)(C)C)C(O[Si](C)(C)C)C(CO[Si](C)(C)C)O[Si](C)(C)C
Mol. weight [g/mol]:	513.05
CAS:	32381-53-6

Physical Properties

Property code	Value	Unit	Source
log10ws	5.78		Crippen Method
logp	6.350		Crippen Method
rinpol	1727.10		NIST Webbook
rinpol	1766.00		NIST Webbook
rinpol	1766.00		NIST Webbook
rinpol	1767.00		NIST Webbook
rinpol	1767.00		NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C32381536&Units=SI

Legend

log10ws: Log10 of Water solubility in mol/l

logp: Octanol/Water partition coefficient

rinpol: Non-polar retention indices

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