Adonitol (Ribitol), TMS

Other names: Adonitol, pentakis(trimethylsilyl) ether
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
InchiKey: SUZLPERYXSOGNY-UHFFFAOYSA-N
Formula: C20H52O5Si5
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

Physical Properties

Property code	Value	Unit	Source
log10ws	5.78		Crippen Method
logp	6.350		Crippen Method
rinpol	1756.00		NIST Webbook
rinpol	1698.90		NIST Webbook
rinpol	1698.90		NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U332811&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