

Butane, 1,2,3,4-tetrakis[(trimethylsilyl)oxy]-

Other names:

2,2,9,9-Tetramethyl-5,6-bis[(trimethylsilyl)oxy]-3,8-dioxa-2,9-disiladecane
Erythritol (4TMS)
Erythritol, tetra-TMS
erythritol, TMS
Erythritol, 4tms derivative

Inchi: InChI=1S/C16H42O4Si4/c1-21(2,3)17-13-15(19-23(7,8)9)16(20-24(10,11)12)14-18-22(4,**InchiKey:** ZBFVOPVQUXWTHM-IYBDPMFKSA-N**Formula:** C16H42O4Si4**SMILES:** C[Si](C)(C)OCC(O[Si](C)(C)C)C(CO[Si](C)(C)C)O[Si](C)(C)C**Mol. weight [g/mol]:** 410.84**CAS:** 18547-29-0

Physical Properties

Property code	Value	Unit	Source
log10ws	4.70		Crippen Method
logp	5.130		Crippen Method
rinpol	1512.50		NIST Webbook
rinpol	1507.60		NIST Webbook
rinpol	1478.00		NIST Webbook
rinpol	1535.00		NIST Webbook
rinpol	1512.50		NIST Webbook
rinpol	1478.00		NIST Webbook
rinpol	1507.60		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=C18547290&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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