

Silane, (1,1-dimethylethyl)dimethyl(tetradecyloxy)-

Other names:

Tetradecyl tert-butyldimethylsilyl ether

1-Tetradecanol, tert-butyldimethylsilyl ether

1-Tetradecanol, DMTBS

1-Tetradecanol, O-TBDMS

1 -Tetradecanol, tBDMS

tert-Butyl(dimethyl)(tetradecyloxy)silane

1-Tetradecanol, tbdms derivative

Inchi: InChI=1S/C20H44OSi/c1-7-8-9-10-11-12-13-14-15-16-17-18-19-21-22(5,6)20(2,3)4/h7-1

InchiKey: PRXWCONRVGAQCV-UHFFFAOYSA-N

Formula: C20H44OSi

SMILES: CCCCCCCCCCCCCO[Si](C)(C)C(C)(C)C

Mol. weight [g/mol]: 328.65

CAS: 77774-34-6

Physical Properties

Property code	Value	Unit	Source
log10ws	-5.33		Crippen Method
logp	7.709		Crippen Method
rinpol	1987.00		NIST Webbook
rinpol	1983.30		NIST Webbook
rinpol	1985.00		NIST Webbook
rinpol	1987.00		NIST Webbook
rinpol	1983.30		NIST Webbook
rinpol	1986.30		NIST Webbook
rinpol	1987.00		NIST Webbook
ripol	1969.00		NIST Webbook
ripol	1969.00		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=C77774346&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

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