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

Other names: 1-Octadecanol, DMTBS
1-Octadecanol, O-TBDMS
1-Octadecanol, tBDMS
1-Octadecanol, tert-butyldimethylsilyl ether
1-Octadecyl tert-butyldimethylsilyl ether
1-Octadecanol, tbdms derivative

Inchi: InChI=1S/C24H52OSi/c1-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-25-26(5,6)2

InchiKey: FLXIDOPWVJYZFM-UHFFFAOYSA-N

Formula: C24H52OSi

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

Mol. weight [g/mol]: 384.75

CAS: 65598-00-7

Physical Properties

Property code	Value	Unit	Source
log10ws	-7.01		Crippen Method
logp	9.270		Crippen Method
rinpol	2395.00		NIST Webbook
rinpol	2384.50		NIST Webbook
rinpol	2382.50		NIST Webbook
rinpol	2395.00		NIST Webbook
rinpol	2395.00		NIST Webbook
rinpol	2384.50		NIST Webbook
ripol	2339.00		NIST Webbook
ripol	2339.00		NIST Webbook
ripol	2339.00		NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C65598007&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
ripol:	Polar retention indices