

# Octadecanoic acid, 2,3-bis[(trimethylsilyl)oxy]propyl ester

Other names:

Stearic acid, 2,3-bis(trimethylsiloxy)propyl ester  
2,3-Bis[(trimethylsilyl)oxy]propyl stearate  
Octadecanoic acid, 2,3-bis-(OTMS) propyl ester  
Bis(trimethylsilyl)monostearin  
monostearin TMS  
Octadecanoic acid, 2,3-bis-(OTMS) propyl ester («alpha»-glyceryl stearate)  
«alpha»-Glyceryl stearate, di-TMS  
Glycerol monostearate, 2tms derivative

**Inchi:** InChI=1S/C27H58O4Si2/c1-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-27(28)29-2

**InchiKey:** DPQSOLLSNCYGEP-UHFFFAOYSA-N

**Formula:** C27H58O4Si2

**SMILES:** CCCCCCCCCCCCCCCCCC(=O)OCC(CO[Si](C)(C)C)O[Si](C)(C)C

**Mol. weight [g/mol]:** 502.92

**CAS:** 1188-75-6

## Physical Properties

Property code	Value	Unit	Source
log10ws	-4.38		Crippen Method
logp	8.863		Crippen Method
rinpol	2766.70		NIST Webbook
rinpol	2806.00		NIST Webbook
rinpol	2808.00		NIST Webbook
rinpol	2806.00		NIST Webbook
rinpol	2766.70		NIST Webbook
rinpol	2808.00		NIST Webbook
rinpol	2806.00		NIST Webbook

## Sources

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C1188756&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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