

# Octadecanoic acid, trimethylsilyl ester

<b>Other names:</b>	Stearic acid, trimethylsilyl ester Trimethylsilyl ester of octadecanoic acid Trimethylsilyl stearate Octadecanoic acid, TMS Octadecanoic acid, TMS ester Stearoxytrimethylsilane Stearic acid, tms derivative
<b>Inchi:</b>	InChI=1S/C21H44O2Si/c1-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21(22)23-24(2,3
<b>InchiKey:</b>	DDLDPZVTUKLKVQB-UHFFFAOYSA-N
<b>Formula:</b>	C21H44O2Si
<b>SMILES:</b>	CCCCCCCCCCCCCCCCC(=O)O[Si](C)(C)C
<b>Mol. weight [g/mol]:</b>	356.66
<b>CAS:</b>	18748-91-9

## Physical Properties

Property code	Value	Unit	Source
log10ws	-5.53		Crippen Method
logp	7.626		Crippen Method
rinpol	2243.00		NIST Webbook
rinpol	2236.43		NIST Webbook
rinpol	2207.00		NIST Webbook
rinpol	2240.00		NIST Webbook
rinpol	2238.00		NIST Webbook
rinpol	2242.00		NIST Webbook
rinpol	2243.00		NIST Webbook
rinpol	2238.00		NIST Webbook
rinpol	2239.00		NIST Webbook
rinpol	2234.10		NIST Webbook
rinpol	2239.00		NIST Webbook
rinpol	2239.00		NIST Webbook
rinpol	2248.00		NIST Webbook
rinpol	2250.00		NIST Webbook
rinpol	2252.00		NIST Webbook
rinpol	2239.00		NIST Webbook
rinpol	2255.00		NIST Webbook
rinpol	2250.00		NIST Webbook
rinpol	2244.00		NIST Webbook

rinpol	2243.00	NIST Webbook
rinpol	2247.00	NIST Webbook
rinpol	2255.00	NIST Webbook
rinpol	2247.00	NIST Webbook
rinpol	2244.00	NIST Webbook
rinpol	2248.00	NIST Webbook
rinpol	2242.00	NIST Webbook

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C18748919&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C18748919&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>

## Legend

<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>rinpol:</b>	Non-polar retention indices

Latest version available from:

<https://www.chemeo.com/cid/29-968-6/Octadecanoic-acid-trimethylsilyl-ester.pdf>

Generated by Cheméo on 2024-02-24 13:06:04.584752915 +0000 UTC m=+11069213.505330231.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.