

# Tetradecanoic acid, tert-butyldimethylsilyl ester

Other names:

Myristic acid, TBDMS  
Tetradecanoic acid, DMTBS  
Tetradecanoic acid, TBDMS  
Myristic acid, DMTBS  
tert-Butyl(dimethyl)silyl myristate  
Myristic acid, tbdms derivative

Inchi:

InChI=1S/C20H42O2Si/c1-7-8-9-10-11-12-13-14-15-16-17-18-19(21)22-23(5,6)20(2,3)4/

InchiKey:

LSNQDHCEXP RRSY-UHFFFAOYSA-N

Formula:

C20H42O2Si

SMILES:

CCCCCCCCCCCC(=O)O[Si](C)(C)C(C)(C)C

Mol. weight [g/mol]:

342.63

CAS:

104255-79-0

## Physical Properties

Property code	Value	Unit	Source
log10ws	-5.11		Crippen Method
logp	7.236		Crippen Method
ripol	2085.00		NIST Webbook
ripol	2085.59		NIST Webbook
ripol	2080.20		NIST Webbook
ripol	2075.00		NIST Webbook
ripol	2075.00		NIST Webbook
ripol	2176.00		NIST Webbook
ripol	2176.00		NIST Webbook

## Sources

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307I>

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=C104255790&Units=SI>

# 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
<b>ripol:</b>	Polar retention indices

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