

# Propanoic acid, 2-methyl-2-[(trimethylsilyl)oxy]-, trimethylsilyl

Other names:  
ester

«alpha»-Hydroxyisobutyric acid (2TMS)  
«alpha»-Hydroxyisobutyric acid, trimethylsilyl ether, trimethylsilyl ester  
2-Hydroxyisobutyric acid diTMS  
2-Hydroxyisobutyric acid, bis-TMS  
Isobutyric acid, 2-hydroxy, di-TMS  
2-Hydroxyisobutyric acid, TMS  
«ALPHA»-hydroxyisobutyric acid, 2tms derivative

**Inchi:** InChI=1S/C10H24O3Si2/c1-10(2,13-15(6,7)8)9(11)12-14(3,4)5/h1-8H3  
**InchiKey:** VLIFWQNPLCEBJY-UHFFFAOYSA-N  
**Formula:** C10H24O3Si2  
**SMILES:** CC(C)(O[Si](C)(C)C)C(=O)O[Si](C)(C)C  
**Mol. weight [g/mol]:** 248.47  
**CAS:** 55133-92-1

## Physical Properties

Property code	Value	Unit	Source
log10ws	1.83		Crippen Method
logp	2.995		Crippen Method
rinpol	1066.00		NIST Webbook
rinpol	1069.00		NIST Webbook
rinpol	1073.00		NIST Webbook
rinpol	1071.00		NIST Webbook
rinpol	1069.00		NIST Webbook
rinpol	1071.00		NIST Webbook
rinpol	1071.00		NIST Webbook
rinpol	1070.00		NIST Webbook
rinpol	1089.00		NIST Webbook
rinpol	1054.30		NIST Webbook
rinpol	1066.00		NIST Webbook
rinpol	1071.00		NIST Webbook
rinpol	1099.00		NIST Webbook
rinpol	1089.00		NIST Webbook
rinpol	1070.00		NIST Webbook
rinpol	1071.00		NIST Webbook

# Sources

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
**Crippen Method:** [https://www.cheméo.com/doc/models/crippen\\_log10ws](https://www.cheméo.com/doc/models/crippen_log10ws)  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C55133921&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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