

# Methylcitric acid, tetrakis-TMS

**Other names:** Methylcitric acid, tetrakis(trimethylsilyl)-  
Methylcitric acid, tetra-TMS  
Methylcitric acid, TMS

**Inchi:** InChI=1S/C19H42O7Si4/c1-15(17(21)24-28(5,6)7)19(26-30(11,12)13,18(22)25-29(8,9)10

**InchiKey:** HPVCSLKJFDTUAG-UHFFFAOYSA-N

**Formula:** C19H42O7Si4

**SMILES:** CC(C(=O)O[Si](C)(C)C)C(CC(=O)O[Si](C)(C)C)(O[Si](C)(C)C)C(=O)O[Si](C)(C)C

**Mol. weight [g/mol]:** 494.87

## Physical Properties

Property code	Value	Unit	Source
log10ws	4.48		Crippen Method
logp	4.737		Crippen Method
rinpol	1862.00		NIST Webbook
rinpol	1869.00		NIST Webbook
rinpol	1867.00		NIST Webbook
rinpol	1874.00		NIST Webbook
rinpol	1858.00		NIST Webbook
rinpol	1866.00		NIST Webbook
rinpol	1866.00		NIST Webbook
rinpol	1858.00		NIST Webbook
rinpol	1862.00		NIST Webbook
rinpol	1874.00		NIST Webbook

## Sources

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**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=U72064&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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