

# Silanol, trimethyl-, phosphate (3:1)

<b>Other names:</b>	Tris(trimethylsilyl) phosphate Phosphoric acid, tris(trimethylsilyl) ester Tris-(trimethylsilyl)fosfat Phosphoric acid, tris-TMS Phosphoric acid, triTMS Phosphoric acid, TMS
<b>Inchi:</b>	InChI=1S/C9H27O4PSi3/c1-15(2,3)11-14(10,12-16(4,5)6)13-17(7,8)9/h1-9H3
<b>InchiKey:</b>	QJMMCGKXBZVAEI-UHFFFAOYSA-N
<b>Formula:</b>	C9H27O4PSi3
<b>SMILES:</b>	C[Si](C)(C)OP(=O)(O[Si](C)(C)C)O[Si](C)(C)C
<b>Mol. weight [g/mol]:</b>	314.54
<b>CAS:</b>	10497-05-9

## Physical Properties

Property code	Value	Unit	Source
log10ws	1.73		Crippen Method
logp	4.649		Crippen Method
rinpol	1286.00		NIST Webbook
rinpol	1283.00		NIST Webbook
rinpol	1280.00		NIST Webbook
rinpol	1285.00		NIST Webbook
rinpol	1288.00		NIST Webbook
rinpol	1289.00		NIST Webbook
rinpol	1289.00		NIST Webbook
rinpol	1276.00		NIST Webbook
rinpol	1273.00		NIST Webbook
rinpol	1276.00		NIST Webbook
rinpol	1292.00		NIST Webbook
rinpol	1290.00		NIST Webbook
rinpol	1286.00		NIST Webbook
rinpol	1273.00		NIST Webbook
rinpol	1263.00		NIST Webbook
rinpol	1297.00		NIST Webbook
rinpol	1286.00		NIST Webbook
rinpol	1286.00		NIST Webbook
rinpol	1282.00		NIST Webbook
rinpol	1280.00		NIST Webbook

rropol	1286.00	NIST Webbook
rropol	1288.00	NIST Webbook
rropol	1286.00	NIST Webbook
rropol	1263.00	NIST Webbook

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C10497059&Units=SI>

**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)

## Legend

**log10ws:** Log10 of Water solubility in mol/l

**logp:** Octanol/Water partition coefficient

**rropol:** Non-polar retention indices

Latest version available from:

<https://www.chemeo.com/cid/33-038-3/Silanol-trimethyl-phosphate-3-1.pdf>

Generated by Cheméo on 2024-04-28 14:19:11.358384312 +0000 UTC m=+16603200.278961630.

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