

# Octyl silicate

**Other names:** octyl orthosilicate  
tetraoctyl orthosilicate

**Inchi:** InChI=1S/C32H68O4Si/c1-5-9-13-17-21-25-29-33-37(34-30-26-22-18-14-10-6-2,35-31-2

**InchiKey:** OZLXDDRBFHZNQ-UHFFFAOYSA-N

**Formula:** C32H68O4Si

**SMILES:** CCCCCCCC[Si](CCCCCCCC)(CCCCCCCC)CCCCCCCC

**Mol. weight [g/mol]:** 544.97

**CAS:** 78-14-8

## Physical Properties

Property code	Value	Unit	Source
log10ws	-9.36		Crippen Method
logp	10.930		Crippen Method
pc	660.00	kPa	Vapor-Liquid Critical Properties of Some Tetraalkoxysilanes

## Sources

Vapor-Liquid Critical Properties of Some Tetraalkoxysilanes:  
NIST Webbook:

<https://www.doi.org/10.1021/je800086s>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C78148&Units=SI>

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)

## Legend

**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**pc:** Critical Pressure

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<https://www.chemeo.com/cid/17-299-2/Octyl-silicate.pdf>

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