

# Silicic acid, tetrapentyl ester

<b>Other names:</b>	Tetrapentyloxysilane amyl orthosilicate tetrapentyl orthosilicate
<b>Inchi:</b>	InChI=1S/C20H44O4Si/c1-5-9-13-17-21-25(22-18-14-10-6-2,23-19-15-11-7-3)24-20-16-1
<b>InchiKey:</b>	KCTGOQZIKPDZNK-UHFFFAOYSA-N
<b>Formula:</b>	C20H44O4Si
<b>SMILES:</b>	CCCCCO[Si](OCCCC)(OCCCC)OCCCC
<b>Mol. weight [g/mol]:</b>	376.65
<b>CAS:</b>	6382-12-3

## Physical Properties

Property code	Value	Unit	Source
log10ws	-4.34		Crippen Method
logp	6.249		Crippen Method
pc	890.00	kPa	Vapor-Liquid Critical Properties of Some Tetraalkoxysilanes
rinpol	1960.00		NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C6382123&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6382123&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Vapor-Liquid Critical Properties of Some Tetraalkoxysilanes:</b>	<a href="https://www.doi.org/10.1021/je800086s">https://www.doi.org/10.1021/je800086s</a>

## Legend

<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices

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