

# Salithion

<b>Other names:</b>	4H-1,3,2-Benzodioxaphosphorin, 2-methoxy-, 2-sulfide Phosphorothioic acid, cyclic O,O-(methylene-o-phenylene) O-methyl ester Phosphorothioic acid, O-methyl ester, cyclic O,O-ester with o-hydroxybenzyl alcohol Saligenin cyclic methyl phosphorothionate 4H-(1.3.2)Benzodioxaphosphorine, 2-methoxy-, 2-sulfide Dioxabenzofos K-9 2-Methoxy-4H-1,2,3-benzodioxaphosphorine-2-sulfide Salithion-sumitomo 2-Methoxy-4H-1,3,2-benzodioxaphosphorin-2-sulfide Dioxabenzophos Salition 2-methoxy-4H-1,3,2-benzodioxaphosphorin 2-sulphide
<b>Inchi:</b>	InChI=1S/C8H9O3PS/c1-9-12(13)10-6-7-4-2-3-5-8(7)11-12/h2-5H,6H2,1H3
<b>InchiKey:</b>	OUNASXJZHBGAI-UHFFFAOYSA-N
<b>Formula:</b>	C8H9O3PS
<b>SMILES:</b>	COP1(=S)OCc2ccccc2O1
<b>Mol. weight [g/mol]:</b>	216.19
<b>CAS:</b>	3811-49-2

## Physical Properties

Property code	Value	Unit	Source
log10ws	1.21		Crippen Method
logp	2.466		Crippen Method
mcvol	143.380	ml/mol	McGowan Method
rinpol	1609.00		NIST Webbook
rinpol	1600.00		NIST Webbook
rinpol	1645.00		NIST Webbook
rinpol	1625.00		NIST Webbook
rinpol	1672.00		NIST Webbook
rinpol	1593.00		NIST Webbook
rinpol	1645.00		NIST Webbook
rinpol	1645.00		NIST Webbook
rinpol	1672.00		NIST Webbook
ripol	2674.00		NIST Webbook
ripol	2674.00		NIST Webbook
tf	329.51 ± 0.20	K	NIST Webbook

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# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	16.92	kJ/mol	327.90	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C3811492&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3811492&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

<b>hfust:</b>	Enthalpy of fusion at a given temperature
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>rinpolar:</b>	Non-polar retention indices
<b>ripolar:</b>	Polar retention indices
<b>tf:</b>	Normal melting (fusion) point

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