

# 2-Propyl-1,3-oxathiolane

Inchi:	InChI=1S/C6H12OS/c1-2-3-6-7-4-5-8-6/h6H,2-5H2,1H3
InchiKey:	FXMKUMPUWACOME-UHFFFAOYSA-N
Formula:	C6H12OS
SMILES:	CCCC1OCCS1
Mol. weight [g/mol]:	132.22

## Physical Properties

Property code	Value	Unit	Source
gf	-10.07	kJ/mol	Joback Method
hf	-193.43	kJ/mol	Joback Method
hfus	16.87	kJ/mol	Joback Method
hvap	39.53	kJ/mol	Joback Method
log10ws	-1.81		Crippen Method
logp	1.876		Crippen Method
mcvol	106.760	ml/mol	McGowan Method
pc	3768.41	kPa	Joback Method
rinpol	1019.00		NIST Webbook
rinpol	1019.00		NIST Webbook
rinpol	1005.00		NIST Webbook
rinpol	1024.00		NIST Webbook
rinpol	1046.00		NIST Webbook
rinpol	1059.00		NIST Webbook
rinpol	1019.00		NIST Webbook
rinpol	1005.00		NIST Webbook
rinpol	1040.00		NIST Webbook
tb	426.74	K	Joback Method
tc	639.53	K	Joback Method
tf	278.30	K	Joback Method
vc	0.380	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	210.61	J/mol×K	426.74	Joback Method

cpg	224.43	J/mol×K	462.21	Joback Method
cpg	237.50	J/mol×K	497.67	Joback Method
cpg	249.85	J/mol×K	533.14	Joback Method
cpg	261.51	J/mol×K	568.60	Joback Method
cpg	272.51	J/mol×K	604.07	Joback Method
cpg	282.86	J/mol×K	639.53	Joback Method

## Sources

<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>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R78894&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R78894&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<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>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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