

# 4-Hydroxy-2,6-dimethyl-tetrahydro-thiopyran-3-ca

<b>Inchi:</b>	InChI=1S/C8H14O2S/c1-5-3-8(10)7(4-9)6(2)11-5/h4-8,10H,3H2,1-2H3
<b>InchiKey:</b>	SBABNVSRZXHIGQ-UHFFFAOYSA-N
<b>Formula:</b>	C8H14O2S
<b>SMILES:</b>	CC1CC(O)C(C=O)C(C)S1
<b>Mol. weight [g/mol]:</b>	174.26

## Physical Properties

Property code	Value	Unit	Source
gf	-178.68	kJ/mol	Joback Method
hf	-407.70	kJ/mol	Joback Method
hfus	21.56	kJ/mol	Joback Method
hvap	62.11	kJ/mol	Joback Method
log10ws	-1.59		Crippen Method
logp	1.076		Crippen Method
mcvol	136.510	ml/mol	McGowan Method
pc	3380.21	kPa	Joback Method
rinpol	1324.00		NIST Webbook
rinpol	1324.00		NIST Webbook
rinpol	1342.00		NIST Webbook
tb	576.65	K	Joback Method
tc	781.89	K	Joback Method
tf	360.85	K	Joback Method
vc	0.495	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	347.01	J/molxK	576.65	Joback Method
cpg	361.34	J/molxK	610.86	Joback Method
cpg	374.92	J/molxK	645.06	Joback Method
cpg	387.75	J/molxK	679.27	Joback Method
cpg	399.84	J/molxK	713.48	Joback Method
cpg	411.20	J/molxK	747.68	Joback Method
cpg	421.83	J/molxK	781.89	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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=R487255&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R487255&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvp:</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>rinp:</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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