

# 1-Propene, 2-methyl-1-(methylthio)-

<b>Inchi:</b>	InChI=1S/C5H10S/c1-5(2)4-6-3/h4H,1-3H3
<b>InchiKey:</b>	COQOFJMYXXLQHT-UHFFFAOYSA-N
<b>Formula:</b>	C5H10S
<b>SMILES:</b>	CSC=C(C)C
<b>Mol. weight [g/mol]:</b>	102.20
<b>CAS:</b>	52101-04-9

## Physical Properties

Property code	Value	Unit	Source
gf	96.01	kJ/mol	Joback Method
hf	2.77	kJ/mol	Joback Method
hfus	11.73	kJ/mol	Joback Method
hvap	33.58	kJ/mol	Joback Method
log10ws	-2.15		Crippen Method
logp	2.273		Crippen Method
mvol	93.360	ml/mol	McGowan Method
pc	3791.65	kPa	Joback Method
tb	386.62	K	Joback Method
tc	591.31	K	Joback Method
tf	161.47	K	Joback Method
vc	0.350	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	154.81	J/mol×K	386.62	Joback Method
cpg	164.70	J/mol×K	420.74	Joback Method
cpg	174.11	J/mol×K	454.85	Joback Method
cpg	183.06	J/mol×K	488.97	Joback Method
cpg	191.56	J/mol×K	523.08	Joback Method
cpg	199.64	J/mol×K	557.20	Joback Method
cpg	207.30	J/mol×K	591.31	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.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=C52101049&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C52101049&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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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