

# Sulfide, 2-butenyl methyl, cis, (Z)-

<b>Inchi:</b>	InChI=1S/C5H10S/c1-3-4-5-6-2/h3-4H,5H2,1-2H3/b4-3-
<b>InchiKey:</b>	QPUBNJBHEYGHVGN-ARJAWSKDSA-N
<b>Formula:</b>	C5H10S
<b>SMILES:</b>	CC=CCSC
<b>Mol. weight [g/mol]:</b>	102.20
<b>CAS:</b>	4088-55-5

## Physical Properties

Property code	Value	Unit	Source
gf	104.56	kJ/mol	Joback Method
hf	12.56	kJ/mol	Joback Method
hfus	13.04	kJ/mol	Joback Method
hvap	33.50	kJ/mol	Joback Method
log10ws	-1.65		Crippen Method
logp	1.925		Crippen Method
mcvol	93.360	ml/mol	McGowan Method
pc	3768.41	kPa	Joback Method
tb	386.74	K	Joback Method
tc	587.18	K	Joback Method
tf	175.43	K	Joback Method
vc	0.349	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	154.81	J/molxK	386.74	Joback Method
cpg	164.53	J/molxK	420.15	Joback Method
cpg	173.79	J/molxK	453.55	Joback Method
cpg	182.61	J/molxK	486.96	Joback Method
cpg	191.00	J/molxK	520.37	Joback Method
cpg	198.98	J/molxK	553.77	Joback Method
cpg	206.56	J/molxK	587.18	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=C4088555&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4088555&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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