

# 3-methyl-3-sulfanylbutanal

**Inchi:** InChI=1S/C6H12OS/c1-6(2,8-3)4-5-7/h5H,4H2,1-3H3  
**InchiKey:** ACLCZPCTIIRMGJ-UHFFFAOYSA-N  
**Formula:** C6H12OS  
**SMILES:** CSC(C)(C)CC=O  
**Mol. weight [g/mol]:** 132.22

## Physical Properties

Property code	Value	Unit	Source
gf	-63.92	kJ/mol	Joback Method
hf	-219.63	kJ/mol	Joback Method
hfus	10.30	kJ/mol	Joback Method
hvap	41.19	kJ/mol	Joback Method
log10ws	-1.61		Crippen Method
logp	1.717		Crippen Method
mcvol	113.320	ml/mol	McGowan Method
pc	3526.27	kPa	Joback Method
rinpol	845.00		NIST Webbook
rinpol	845.00		NIST Webbook
ripol	1653.00		NIST Webbook
tb	450.89	K	Joback Method
tc	659.46	K	Joback Method
tf	236.20	K	Joback Method
vc	0.431	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	227.94	J/molxK	450.89	Joback Method
cpg	239.61	J/molxK	485.65	Joback Method
cpg	250.62	J/molxK	520.41	Joback Method
cpg	260.97	J/molxK	555.17	Joback Method
cpg	270.71	J/molxK	589.94	Joback Method
cpg	279.85	J/molxK	624.70	Joback Method
cpg	288.43	J/molxK	659.46	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=R419777&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R419777&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>rinpolar:</b>	Non-polar retention indices
<b>ripolar:</b>	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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