

# 2-Methyl-2-(methyldithio)propanal

<b>Other names:</b>	2-methyl-2-(methyldithio)propionaldehyde
<b>Inchi:</b>	InChI=1S/C5H10OS2/c1-5(2,4-6)8-7-3/h4H,1-3H3
<b>InchiKey:</b>	VLBWEJJOETYCSE-UHFFFAOYSA-N
<b>Formula:</b>	C5H10OS2
<b>SMILES:</b>	CSSC(C)(C)C=O
<b>Mol. weight [g/mol]:</b>	150.26

## Physical Properties

Property code	Value	Unit	Source
gf	-39.22	kJ/mol	Joback Method
hf	-157.12	kJ/mol	Joback Method
hfus	11.84	kJ/mol	Joback Method
hvap	45.78	kJ/mol	Joback Method
log10ws	-2.07		Crippen Method
logp	1.975		Crippen Method
mcvol	115.580	ml/mol	McGowan Method
pc	4051.80	kPa	Joback Method
ripol	1570.00		NIST Webbook
ripol	1570.00		NIST Webbook
ripol	1570.00		NIST Webbook
tb	496.79	K	Joback Method
tc	732.11	K	Joback Method
tf	259.33	K	Joback Method
vc	0.429	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	232.24	J/molxK	496.79	Joback Method
cpg	243.02	J/molxK	536.01	Joback Method
cpg	253.08	J/molxK	575.23	Joback Method
cpg	262.46	J/molxK	614.45	Joback Method
cpg	271.17	J/molxK	653.67	Joback Method
cpg	279.23	J/molxK	692.89	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C67952607&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C67952607&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>
<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>

## 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>ripol:</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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