

# 5-methyl-2-[(methylthio)methyl]-2-hexenal

<b>Inchi:</b>	InChI=1S/C9H16OS/c1-8(2)4-5-9(6-10)7-11-3/h5-6,8H,4,7H2,1-3H3/b9-5-
<b>InchiKey:</b>	FHZUYUPNOHOVIC-UITAMQMPSA-N
<b>Formula:</b>	C9H16OS
<b>SMILES:</b>	CSCC(C=O)=CCC(C)C
<b>Mol. weight [g/mol]:</b>	172.29

## Physical Properties

Property code	Value	Unit	Source
gf	27.73	kJ/mol	Joback Method
hf	-170.65	kJ/mol	Joback Method
hfus	20.85	kJ/mol	Joback Method
hvap	48.81	kJ/mol	Joback Method
log10ws	-2.37		Crippen Method
logp	2.521		Crippen Method
mcvol	151.290	ml/mol	McGowan Method
pc	2695.80	kPa	Joback Method
ripol	1820.00		NIST Webbook
ripol	1820.00		NIST Webbook
tb	526.36	K	Joback Method
tc	731.35	K	Joback Method
tf	233.55	K	Joback Method
vc	0.586	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	335.47	J/mol×K	526.36	Joback Method
cpg	349.25	J/mol×K	560.52	Joback Method
cpg	362.29	J/mol×K	594.69	Joback Method
cpg	374.63	J/mol×K	628.85	Joback Method
cpg	386.29	J/mol×K	663.02	Joback Method
cpg	397.30	J/mol×K	697.18	Joback Method
cpg	407.68	J/mol×K	731.35	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=R308197&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R308197&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>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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