

# 5-Methyl-4-mercaptohexyl-2-acetate

<b>Inchi:</b>	InChI=1S/C9H18O2S/c1-6(2)9(12)5-7(3)11-8(4)10/h6-7,9,12H,5H2,1-4H3
<b>InchiKey:</b>	XCOUODRDDWCWCD-UHFFFAOYSA-N
<b>Formula:</b>	C9H18O2S
<b>SMILES:</b>	CC(=O)OC(C)CC(S)C(C)C
<b>Mol. weight [g/mol]:</b>	190.30

## Physical Properties

Property code	Value	Unit	Source
gf	-186.95	kJ/mol	Joback Method
hf	-451.25	kJ/mol	Joback Method
hfus	15.33	kJ/mol	Joback Method
hvap	50.36	kJ/mol	Joback Method
log10ws	-2.51		Crippen Method
logp	2.283		Crippen Method
mcvol	161.460	ml/mol	McGowan Method
pc	2635.25	kPa	Joback Method
rinpol	1238.00		NIST Webbook
rinpol	1238.00		NIST Webbook
rinpol	1224.00		NIST Webbook
rinpol	1224.00		NIST Webbook
ripol	1675.00		NIST Webbook
ripol	1650.00		NIST Webbook
ripol	1650.00		NIST Webbook
tb	543.15	K	Joback Method
tc	747.37	K	Joback Method
tf	254.81	K	Joback Method
vc	0.600	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	376.02	J/mol×K	543.15	Joback Method
cpg	390.80	J/mol×K	577.19	Joback Method
cpg	404.88	J/mol×K	611.22	Joback Method

cpg	418.25	J/mol×K	645.26	Joback Method
cpg	430.94	J/mol×K	679.30	Joback Method
cpg	442.94	J/mol×K	713.34	Joback Method
cpg	454.27	J/mol×K	747.37	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=R291891&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R291891&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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<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

Latest version available from:

<https://www.chemeo.com/cid/77-040-2/5-Methyl-4-mercaptohexyl-2-acetate.pdf>

Generated by Cheméo on 2024-05-03 00:28:15.962493193 +0000 UTC m=+16985344.883070505.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.