

# 3-mercaptobutyl-acetate

Inchi:	InChI=1S/C6H12O2S/c1-5(9)3-4-8-6(2)7/h5,9H,3-4H2,1-2H3
InchiKey:	GMXSGLCDVHHWIB-UHFFFAOYSA-N
Formula:	C6H12O2S
SMILES:	CC(=O)OCCC(C)S
Mol. weight [g/mol]:	148.22

## Physical Properties

Property code	Value	Unit	Source
gf	-207.33	kJ/mol	Joback Method
hf	-378.77	kJ/mol	Joback Method
hfus	14.60	kJ/mol	Joback Method
hvap	44.45	kJ/mol	Joback Method
log10ws	-1.38		Crippen Method
logp	1.258		Crippen Method
mcvol	119.190	ml/mol	McGowan Method
pc	3560.02	kPa	Joback Method
rinpol	1035.00		NIST Webbook
rinpol	1035.00		NIST Webbook
ripol	1559.00		NIST Webbook
ripol	1559.00		NIST Webbook
tb	475.39	K	Joback Method
tc	679.41	K	Joback Method
tf	251.00	K	Joback Method
vc	0.444	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	244.02	J/molxK	475.39	Joback Method
cpg	254.95	J/molxK	509.39	Joback Method
cpg	265.43	J/molxK	543.40	Joback Method
cpg	275.45	J/molxK	577.40	Joback Method
cpg	285.02	J/molxK	611.41	Joback Method
cpg	294.14	J/molxK	645.41	Joback Method

## Sources

<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=R291811&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R291811&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

## 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>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

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