

# 4-Mercapto-3-methylpentyl-2-acetate, # 1

<b>Inchi:</b>	InChI=1S/C8H16O2S/c1-5(7(3)11)6(2)10-8(4)9/h5-7,11H,1-4H3
<b>InchiKey:</b>	HQPZOLJRLYJHKW-UHFFFAOYSA-N
<b>Formula:</b>	C8H16O2S
<b>SMILES:</b>	CC(=O)OC(C)C(C)C(C)S
<b>Mol. weight [g/mol]:</b>	176.28

## Physical Properties

Property code	Value	Unit	Source
gf	-195.37	kJ/mol	Joback Method
hf	-430.61	kJ/mol	Joback Method
hfus	12.74	kJ/mol	Joback Method
hvap	48.13	kJ/mol	Joback Method
log10ws	-2.09		Crippen Method
logp	1.892		Crippen Method
mcvol	147.370	ml/mol	McGowan Method
pc	2915.53	kPa	Joback Method
rinpola	1166.00		NIST Webbook
rinpola	1166.00		NIST Webbook
tb	520.27	K	Joback Method
tc	727.60	K	Joback Method
tf	243.54	K	Joback Method
vc	0.543	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	330.21	J/molxK	520.27	Joback Method
cpg	344.08	J/molxK	554.83	Joback Method
cpg	357.30	J/molxK	589.38	Joback Method
cpg	369.88	J/molxK	623.94	Joback Method
cpg	381.81	J/molxK	658.49	Joback Method
cpg	393.11	J/molxK	693.05	Joback Method
cpg	403.78	J/molxK	727.60	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=R603066&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R603066&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>rinp:</b>	Non-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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