

# 3-mercaptoheptyl-acetate

**Inchi:** InChI=1S/C9H18O2S/c1-3-4-5-9(12)6-7-11-8(2)10/h9,12H,3-7H2,1-2H3  
**InchiKey:** JWESHEXXXWDVAQ-UHFFFAOYSA-N  
**Formula:** C9H18O2S  
**SMILES:** CCCCC(S)CCOC(C)=O  
**Mol. weight [g/mol]:** 190.30

## Physical Properties

Property code	Value	Unit	Source
gf	-182.07	kJ/mol	Joback Method
hf	-440.69	kJ/mol	Joback Method
hfus	22.37	kJ/mol	Joback Method
hvap	51.13	kJ/mol	Joback Method
log10ws	-2.64		Crippen Method
logp	2.428		Crippen Method
mcvol	161.460	ml/mol	McGowan Method
pc	2592.49	kPa	Joback Method
rinpol	1324.00		NIST Webbook
rinpol	1324.00		NIST Webbook
ripol	1823.00		NIST Webbook
tb	544.03	K	Joback Method
tc	739.88	K	Joback Method
tf	284.81	K	Joback Method
vc	0.612	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	375.39	J/molxK	544.03	Joback Method
cpg	389.44	J/molxK	576.67	Joback Method
cpg	402.86	J/molxK	609.31	Joback Method
cpg	415.65	J/molxK	641.95	Joback Method
cpg	427.82	J/molxK	674.60	Joback Method
cpg	439.39	J/molxK	707.24	Joback Method
cpg	450.35	J/molxK	739.88	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R291826&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R291826&amp;Units=SI</a>
<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>

# 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>rinpolar:</b>	Non-polar retention indices
<b>ripolar:</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/66-207-9/3-mercaptoheptyl-acetate.pdf>

Generated by Cheméo on 2024-04-25 19:09:16.407603758 +0000 UTC m=+16361405.328181069.

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