

# 3-Methyl-3-sulfanylbutyl Butanoate

<b>Inchi:</b>	InChI=1S/C9H18O2S/c1-4-5-8(10)11-7-6-9(2,3)12/h12H,4-7H2,1-3H3
<b>InchiKey:</b>	GPJBVDXMTSFSPB-UHFFFAOYSA-N
<b>Formula:</b>	C9H18O2S
<b>SMILES:</b>	CCCC(=O)OCCC(C)(C)S
<b>Mol. weight [g/mol]:</b>	190.30

## Physical Properties

Property code	Value	Unit	Source
gf	-176.79	kJ/mol	Joback Method
hf	-444.16	kJ/mol	Joback Method
hfus	18.48	kJ/mol	Joback Method
hvap	50.22	kJ/mol	Joback Method
log10ws	-2.64		Crippen Method
logp	2.428		Crippen Method
mcvol	161.460	ml/mol	McGowan Method
pc	2621.78	kPa	Joback Method
ripol	1266.00		NIST Webbook
ripol	1725.00		NIST Webbook
ripol	1725.00		NIST Webbook
tb	541.24	K	Joback Method
tc	744.68	K	Joback Method
tf	302.23	K	Joback Method
vc	0.607	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	378.36	J/molxK	541.24	Joback Method
cpg	392.98	J/molxK	575.15	Joback Method
cpg	406.82	J/molxK	609.05	Joback Method
cpg	419.89	J/molxK	642.96	Joback Method
cpg	432.24	J/molxK	676.87	Joback Method
cpg	443.87	J/molxK	710.78	Joback Method
cpg	454.82	J/molxK	744.68	Joback Method

# Sources

<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=R519550&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R519550&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>

# 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

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