

# butyl 3-(methylthio)propanoate

<b>Inchi:</b>	InChI=1S/C8H16O2S/c1-3-4-6-10-8(9)5-7-11-2/h3-7H2,1-2H3
<b>InchiKey:</b>	AOUVGXHIHWHVEM-UHFFFAOYSA-N
<b>Formula:</b>	C8H16O2S
<b>SMILES:</b>	CCCCOC(=O)CCSC
<b>Mol. weight [g/mol]:</b>	176.28

## Physical Properties

Property code	Value	Unit	Source
gf	-184.32	kJ/mol	Joback Method
hf	-411.38	kJ/mol	Joback Method
hfus	23.39	kJ/mol	Joback Method
hvap	49.38	kJ/mol	Joback Method
log10ws	-1.92		Crippen Method
logp	2.083		Crippen Method
mcvol	147.370	ml/mol	McGowan Method
pc	2704.22	kPa	Joback Method
ripol	1748.00		NIST Webbook
tb	527.51	K	Joback Method
tc	721.73	K	Joback Method
tf	286.48	K	Joback Method
vc	0.561	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	331.65	J/mol×K	527.51	Joback Method
cpg	344.52	J/mol×K	559.88	Joback Method
cpg	356.87	J/mol×K	592.25	Joback Method
cpg	368.68	J/mol×K	624.62	Joback Method
cpg	379.96	J/mol×K	656.99	Joback Method
cpg	390.70	J/mol×K	689.36	Joback Method
cpg	400.90	J/mol×K	721.73	Joback Method

# Sources

<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>
<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=R327183&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R327183&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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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