

# E-1-(3-Chloro-2-methyl-allylsulfanyl) -butane

<b>Other names:</b>	E-1-(3-Chloro-2-methyl-allylthio) -butane
<b>Inchi:</b>	InChI=1S/C8H15ClS/c1-3-4-5-10-7-8(2)6-9/h6H,3-5,7H2,1-2H3/b8-6+
<b>InchiKey:</b>	LOSAPLMUPWETBL-SOFGYWHQSA-N
<b>Formula:</b>	C8H15ClS
<b>SMILES:</b>	CCCCSCC(C)=CCl
<b>Mol. weight [g/mol]:</b>	178.72

## Physical Properties

Property code	Value	Unit	Source
gf	109.34	kJ/mol	Joback Method
hf	-74.89	kJ/mol	Joback Method
hfus	23.70	kJ/mol	Joback Method
hvap	44.64	kJ/mol	Joback Method
log10ws	-3.56		Crippen Method
logp	3.662		Crippen Method
mcvol	147.870	ml/mol	McGowan Method
pc	2632.55	kPa	Joback Method
rinpol	1227.60		NIST Webbook
ripol	1587.80		NIST Webbook
tb	492.69	K	Joback Method
tc	697.09	K	Joback Method
tf	225.20	K	Joback Method
vc	0.568	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	298.71	J/mol×K	492.69	Joback Method
cpg	311.90	J/mol×K	526.76	Joback Method
cpg	324.41	J/mol×K	560.82	Joback Method
cpg	336.25	J/mol×K	594.89	Joback Method
cpg	347.46	J/mol×K	628.96	Joback Method
cpg	358.07	J/mol×K	663.02	Joback Method
cpg	368.09	J/mol×K	697.09	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=R153818&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R153818&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.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>

# 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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