

# E-(3-Chloro-2-methyl-allylsulfanyl)methyl-benzene

<b>Other names:</b>	E-(3-Chloro-2-methyl-allylthio)-methyl benzene
<b>Inchi:</b>	InChI=1S/C11H13ClS/c1-10(7-12)8-13-9-11-5-3-2-4-6-11/h2-7H,8-9H2,1H3/b10-7+
<b>InchiKey:</b>	MTEZNPWGPCHQBQ-JXMROGBWSA-N
<b>Formula:</b>	C11H13ClS
<b>SMILES:</b>	CC(=CCl)CSCc1ccccc1
<b>Mol. weight [g/mol]:</b>	212.74

## Physical Properties

Property code	Value	Unit	Source
gf	247.01	kJ/mol	Joback Method
hf	99.72	kJ/mol	Joback Method
hfus	25.51	kJ/mol	Joback Method
hvap	53.60	kJ/mol	Joback Method
log10ws	-4.41		Crippen Method
logp	4.062		Crippen Method
mcvol	166.380	ml/mol	McGowan Method
pc	2752.67	kPa	Joback Method
rinpol	1619.70		NIST Webbook
ripol	2616.20		NIST Webbook
tb	588.01	K	Joback Method
tc	829.32	K	Joback Method
tf	285.43	K	Joback Method
vc	0.627	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	363.68	J/mol×K	588.01	Joback Method
cpg	378.51	J/mol×K	628.23	Joback Method
cpg	392.24	J/mol×K	668.45	Joback Method
cpg	404.93	J/mol×K	708.67	Joback Method
cpg	416.66	J/mol×K	748.88	Joback Method
cpg	427.49	J/mol×K	789.10	Joback Method
cpg	437.49	J/mol×K	829.32	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R388871&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R388871&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

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