

# 2,3-dichlorobut-1-ene

<b>Inchi:</b>	InChI=1S/C4H6Cl2/c1-3(5)4(2)6/h4H,1H2,2H3
<b>InchiKey:</b>	LKINOBKAEGPXMI-UHFFFAOYSA-N
<b>Formula:</b>	C4H6Cl2
<b>SMILES:</b>	C=C(Cl)C(C)Cl
<b>Mol. weight [g/mol]:</b>	125.00
<b>CAS:</b>	7013-11-8

## Physical Properties

Property code	Value	Unit	Source
gf	35.79	kJ/mol	Joback Method
hf	-47.01	kJ/mol	Joback Method
hfus	8.40	kJ/mol	Joback Method
hvap	32.29	kJ/mol	Joback Method
log10ws	-2.26		Crippen Method
logp	2.366		Crippen Method
mcvol	87.400	ml/mol	McGowan Method
pc	3805.69	kPa	Joback Method
tb	361.90	K	Joback Method
tc	556.48	K	Joback Method
tf	163.96	K	Joback Method
vc	0.334	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	128.38	J/molxK	361.90	Joback Method
cpg	135.37	J/molxK	394.33	Joback Method
cpg	142.00	J/molxK	426.76	Joback Method
cpg	148.26	J/molxK	459.19	Joback Method
cpg	154.19	J/molxK	491.62	Joback Method
cpg	159.79	J/molxK	524.05	Joback Method
cpg	165.08	J/molxK	556.48	Joback Method

# Sources

<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=C7013118&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7013118&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>

# 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>h vap:</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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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