

# 4-chlorobut-1-ene

<b>Inchi:</b>	InChI=1S/C4H7Cl/c1-2-3-4-5/h2H,1,3-4H2
<b>InchiKey:</b>	WKEVRZCQFQDCIR-UHFFFAOYSA-N
<b>Formula:</b>	C4H7Cl
<b>SMILES:</b>	C=CCCCl
<b>Mol. weight [g/mol]:</b>	90.55
<b>CAS:</b>	927-73-1

## Physical Properties

Property code	Value	Unit	Source
gf	58.71	kJ/mol	Joback Method
hf	-28.90	kJ/mol	NIST Webbook
hfus	9.03	kJ/mol	Joback Method
hvap	28.21	kJ/mol	Joback Method
log10ws	-1.50		Crippen Method
logp	1.801		Crippen Method
mcvol	75.160	ml/mol	McGowan Method
pc	3920.94	kPa	Joback Method
tb	348.00 ± 5.00	K	NIST Webbook
tb	347.00 ± 4.00	K	NIST Webbook
tc	501.04	K	Joback Method
tf	163.00	K	Joback Method
vc	0.289	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	106.72	J/mol×K	325.03	Joback Method
cpg	113.50	J/mol×K	354.37	Joback Method
cpg	119.99	J/mol×K	383.70	Joback Method
cpg	126.20	J/mol×K	413.04	Joback Method
cpg	132.13	J/mol×K	442.37	Joback Method
cpg	137.80	J/mol×K	471.71	Joback Method
cpg	143.22	J/mol×K	501.04	Joback Method
dvisc	0.0029600	Paxs	163.00	Joback Method

dvisc	0.0014822	Paxs	190.00	Joback Method
dvisc	0.0008816	Paxs	217.01	Joback Method
dvisc	0.0005883	Paxs	244.01	Joback Method
dvisc	0.0004255	Paxs	271.02	Joback Method
dvisc	0.0003264	Paxs	298.02	Joback Method
dvisc	0.0002616	Paxs	325.03	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	348.20	K	103.00	NIST Webbook

## 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=C927731&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C927731&amp;Units=SI</a>
<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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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