

Benzene, (3-chloroallyl)-

Other names:	Benzene, (3-chloro-2-propenyl)-
Inchi:	InChI=1S/C9H9Cl/c10-8-4-7-9-5-2-1-3-6-9/h1-6,8H,7H2/b8-4+
InchiKey:	JJTUJRVKTPSEFZ-XBXARRHUSA-N
Formula:	C9H9Cl
SMILES:	C1C=CCc1ccccc1
Mol. weight [g/mol]:	152.62
CAS:	6268-37-7

Physical Properties

Property code	Value	Unit	Source
gf	205.60	kJ/mol	Joback Method
hf	108.92	kJ/mol	Joback Method
hfus	17.51	kJ/mol	Joback Method
hvap	42.25	kJ/mol	Joback Method
log10ws	-3.19		Crippen Method
logp	2.982		Crippen Method
mcvol	121.850	ml/mol	McGowan Method
pc	3318.18	kPa	Joback Method
tb	486.20	K	NIST Webbook
tb	481.65 ± 2.00	K	NIST Webbook
tc	698.08	K	Joback Method
tf	242.45	K	Joback Method
vc	0.461	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	225.60	J/mol×K	473.59	Joback Method
cpg	238.47	J/mol×K	511.00	Joback Method
cpg	250.43	J/mol×K	548.42	Joback Method
cpg	261.52	J/mol×K	585.83	Joback Method
cpg	271.80	J/mol×K	623.25	Joback Method
cpg	281.33	J/mol×K	660.66	Joback Method
cpg	290.16	J/mol×K	698.08	Joback Method

dvisc	0.0031929	Paxs	242.45	Joback Method
dvisc	0.0014975	Paxs	280.97	Joback Method
dvisc	0.0008430	Paxs	319.50	Joback Method
dvisc	0.0005371	Paxs	358.02	Joback Method
dvisc	0.0003735	Paxs	396.54	Joback Method
dvisc	0.0002770	Paxs	435.07	Joback Method
dvisc	0.0002156	Paxs	473.59	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	370.20	K	2.40	NIST Webbook

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6268377&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure

tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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<https://www.chemeo.com/cid/27-907-5/Benzene-3-chloroallyl.pdf>

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