

Bicyclo[3.2.1]oct-2-ene, 3-chloro-

Other names:	3-Chlorobicyclo[3.2.1]oct-2-ene
Inchi:	InChI=1S/C8H11Cl/c9-8-4-6-1-2-7(3-6)5-8/h4,6-7H,1-3,5H2
InchiKey:	XLVAWKKCOIWHBT-UHFFFAOYSA-N
Formula:	C8H11Cl
SMILES:	C1C1=CC2CCC(C1)C2
Mol. weight [g/mol]:	142.63
CAS:	35242-17-2

Physical Properties

Property code	Value	Unit	Source
gf	122.18	kJ/mol	Joback Method
hf	-44.60	kJ/mol	Joback Method
hfus	13.58	kJ/mol	Joback Method
hvap	38.91	kJ/mol	Joback Method
log10ws	-2.98		Crippen Method
logp	2.929		Crippen Method
mcvol	109.800	ml/mol	McGowan Method
pc	3493.01	kPa	Joback Method
tb	446.03	K	Joback Method
tc	667.21	K	Joback Method
tf	251.96	K	Joback Method
vc	0.416	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	217.65	J/mol×K	446.03	Joback Method
cpg	233.29	J/mol×K	482.89	Joback Method
cpg	247.87	J/mol×K	519.76	Joback Method
cpg	261.44	J/mol×K	556.62	Joback Method
cpg	274.07	J/mol×K	593.48	Joback Method
cpg	285.81	J/mol×K	630.34	Joback Method
cpg	296.74	J/mol×K	667.21	Joback Method
dvisc	0.0013355	Paxs	251.96	Joback Method

dvisc	0.0010738	Paxs	284.30	Joback Method
dvisc	0.0009027	Paxs	316.65	Joback Method
dvisc	0.0007836	Paxs	349.00	Joback Method
dvisc	0.0006968	Paxs	381.34	Joback Method
dvisc	0.0006311	Paxs	413.68	Joback Method
dvisc	0.0005799	Paxs	446.03	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	329.20	K	1.30	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C35242172&Units=SI

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
mcvol:	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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