

Bicyclo[2.2.1]heptane, 2-chloro-, exo-

Other names:	Norbornane, 2-chloro-, exo- exo-2-Chloronorbornane exo-2-Norbornyl chloride exo-Norbornyl chloride 2-Chlorobicyclo[2.2.1]heptane, exo- 2-exo-Chloronorbornane
Inchi:	InChI=1S/C7H11Cl/c8-7-4-5-1-2-6(7)3-5/h5-7H,1-4H2/t5?,6?,7-/m1/s1
InchiKey:	PJWBUKHIZPKRJF-KPGICGJXSA-N
Formula:	C7H11Cl
SMILES:	C1C1CC2CCC1C2
Mol. weight [g/mol]:	130.62
CAS:	765-91-3

Physical Properties

Property code	Value	Unit	Source
gf	97.82	kJ/mol	Joback Method
hf	-84.45	kJ/mol	Joback Method
hfl	-131.00 ± 2.00	kJ/mol	NIST Webbook
hfus	13.32	kJ/mol	Joback Method
hvap	35.25	kJ/mol	Joback Method
log10ws	-2.32		Crippen Method
logp	2.414		Crippen Method
mvol	100.010	ml/mol	McGowan Method
pc	3564.27	kPa	Joback Method
tb	410.07	K	Joback Method
tc	620.88	K	Joback Method
tf	226.69	K	Joback Method
vc	0.382	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	190.63	J/mol×K	410.07	Joback Method
cpg	259.99	J/mol×K	585.75	Joback Method

cpg	247.96	J/molxK	550.61	Joback Method
cpg	235.07	J/molxK	515.48	Joback Method
cpg	221.25	J/molxK	480.34	Joback Method
cpg	206.46	J/molxK	445.21	Joback Method
cpg	271.21	J/molxK	620.88	Joback Method
dvisc	0.0006112	Paxs	410.07	Joback Method
dvisc	0.0006202	Paxs	379.51	Joback Method
dvisc	0.0006310	Paxs	348.94	Joback Method
dvisc	0.0006442	Paxs	318.38	Joback Method
dvisc	0.0006605	Paxs	287.82	Joback Method
dvisc	0.0006812	Paxs	257.25	Joback Method
dvisc	0.0007085	Paxs	226.69	Joback Method

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=C765913&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
hfl:	Liquid phase 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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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