

Norbornane, 3-chloro-2-trichloromethyl, endo-Cl

Inchi:	InChI=1S/C8H10Cl4/c9-7-5-2-1-4(3-5)6(7)8(10,11)12/h4-7H,1-3H2/t4?,5?,6-,7-/m0/s1
InchiKey:	UBXTVVBTCPEJJI-FTDRKVFOSA-N
Formula:	C8H10Cl4
SMILES:	C1C1C2CCC(C2)C1C(Cl)(Cl)Cl
Mol. weight [g/mol]:	247.98

Physical Properties

Property code	Value	Unit	Source
gf	65.58	kJ/mol	Joback Method
hf	-181.40	kJ/mol	Joback Method
hfus	22.16	kJ/mol	Joback Method
hvap	49.03	kJ/mol	Joback Method
log10ws	-4.06		Crippen Method
logp	4.010		Crippen Method
mvol	150.820	ml/mol	McGowan Method
pc	2781.78	kPa	Joback Method
rinpol	1480.00		NIST Webbook
tb	537.34	K	Joback Method
tc	777.87	K	Joback Method
tf	325.90	K	Joback Method
vc	0.573	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	323.62	J/molxK	537.34	Joback Method
cpg	388.00	J/molxK	737.78	Joback Method
cpg	377.36	J/molxK	697.70	Joback Method
cpg	365.72	J/molxK	657.61	Joback Method
cpg	352.96	J/molxK	617.52	Joback Method
cpg	338.97	J/molxK	577.43	Joback Method
cpg	397.76	J/molxK	777.87	Joback Method
dvisc	0.0011478	Paxs	537.34	Joback Method
dvisc	0.0012538	Paxs	502.10	Joback Method

dvisc	0.0013878	Paxs	466.86	Joback Method
dvisc	0.0015620	Paxs	431.62	Joback Method
dvisc	0.0017953	Paxs	396.38	Joback Method
dvisc	0.0021203	Paxs	361.14	Joback Method
dvisc	0.0025958	Paxs	325.90	Joback Method

Sources

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=R515414&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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