Norbornene, 5-bromo-6-(trichloromethyl)

Inchi: InChI=1S/C8H8BrCl3/c9-7-5-2-1-4(3-5)6(7)8(10,11)12/h1-2,4-7H,3H2
InchiKey: CCIWXGOEVIJVBB-UHFFFAOYSA-N
Formula: C8H8BrCl3
SMILES: ClC(Cl)(Cl)C1C2C=CC(C2)C1Br
Mol. weight [g/mol]: 290.41

Physical Properties

Property code	Value	Unit	Source
gf	121.79	kJ/mol	Joback Method
hf	-81.55	kJ/mol	Joback Method
hfus	24.47	kJ/mol	Joback Method
hvap	51.37	kJ/mol	Joback Method
log10ws	-4.19		Crippen Method
logp	3.942		Crippen Method
mcvol	151.780	ml/mol	McGowan Method
pc	3250.43	kPa	Joback Method
rinpol	1574.00		NIST Webbook
tb	565.23	K	Joback Method
tc	818.92	K	Joback Method
tf	356.54	K	Joback Method
vc	0.572	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	316.68	J/mol×K	565.23	Joback Method
cpg	330.17	J/mol×K	607.51	Joback Method
cpg	342.30	J/mol×K	649.79	Joback Method
cpg	353.23	J/mol×K	692.08	Joback Method
cpg	363.10	J/mol×K	734.36	Joback Method
cpg	372.08	J/mol×K	776.64	Joback Method
cpg	380.31	J/mol×K	818.92	Joback Method
dvisc	0.0025890	Pa×s	356.54	Joback Method
dvisc	0.0021780	Pa×s	391.32	Joback Method

dvisc	0.0018846	Pa×s	426.10	Joback Method
dvisc	0.0016668	Pa×s	460.88	Joback Method
dvisc	0.0014997	Pa×s	495.67	Joback Method
dvisc	0.0013683	Pa×s	530.45	Joback Method
dvisc	0.0012625	Pa×s	565.23	Joback Method

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=R515454&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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