Norbornane, 2-bromo-3-(trichloromethyl), exo-Br

Inchi: InChI=1S/C8H10BrCl3/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: JBMOBFXXJVIZLP-GOXNJFHPSA-N
Formula: C8H10BrCl3
SMILES: ClC(Cl)(Cl)C1C2CCC(C2)C1Br
Mol. weight [g/mol]: 292.43

Physical Properties

Property code	Value	Unit	Source
gf	91.83	kJ/mol	Joback Method
hf	-139.33	kJ/mol	Joback Method
hfus	23.25	kJ/mol	Joback Method
hvap	51.08	kJ/mol	Joback Method
log10ws	-4.34		Crippen Method
logp	4.166		Crippen Method
mcvol	156.080	ml/mol	McGowan Method
pc	3121.00	kPa	Joback Method
rinpol	1540.00		NIST Webbook
tb	566.07	K	Joback Method
tc	817.12	K	Joback Method
tf	355.78	K	Joback Method
vc	0.586	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	336.05	J/mol×K	566.07	Joback Method
cpg	350.91	J/mol×K	607.91	Joback Method
cpg	364.37	J/mol×K	649.75	Joback Method
cpg	376.58	J/mol×K	691.60	Joback Method
cpg	387.69	J/mol×K	733.44	Joback Method
cpg	397.84	J/mol×K	775.28	Joback Method
cpg	407.17	J/mol×K	817.12	Joback Method
dvisc	0.0028279	Pa×s	355.78	Joback Method
dvisc	0.0023177	Pa×s	390.83	Joback Method

dvisc	0.0019628	Pa×s	425.88	Joback Method
dvisc	0.0017048	Pa×s	460.93	Joback Method
dvisc	0.0015105	Pa×s	495.97	Joback Method
dvisc	0.0013599	Pa×s	531.02	Joback Method
dvisc	0.0012403	Pa×s	566.07	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=R515385&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