

Norbornane, 2-bromo-6-(trichloromethyl), endo-Br

Inchi:	InChI=1S/C8H10BrCl3/c9-7-3-4-1-5(7)6(2-4)8(10,11)12/h4-7H,1-3H2/t4?,5?,6-,7-/m1/s1
InchiKey:	AVFLBQKQUWKXCS-TVVDDFTJSA-N
Formula:	C8H10BrCl3
SMILES:	C1C(Cl)(Cl)C1CC2CC(Br)C1C2
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	1516.00		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/molxK	566.07	Joback Method
cpg	350.91	J/molxK	607.91	Joback Method
cpg	364.37	J/molxK	649.75	Joback Method
cpg	376.58	J/molxK	691.60	Joback Method
cpg	387.69	J/molxK	733.44	Joback Method
cpg	397.84	J/molxK	775.28	Joback Method
cpg	407.17	J/molxK	817.12	Joback Method
dvisc	0.0028279	Paxs	355.78	Joback Method
dvisc	0.0023177	Paxs	390.83	Joback Method

dvisc	0.0019628	Paxs	425.88	Joback Method
dvisc	0.0017048	Paxs	460.93	Joback Method
dvisc	0.0015105	Paxs	495.97	Joback Method
dvisc	0.0013599	Paxs	531.02	Joback Method
dvisc	0.0012403	Paxs	566.07	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=R515390&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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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