2-Methyl-2,3-dibromobutane

Inchi: InChI=1S/C5H10Br2/c1-4(6)5(2,3)7/h4H,1-3H3
InchiKey: XLTWAJQKAGLQDX-UHFFFAOYSA-N
Formula: C5H10Br2
SMILES: CC(Br)C(C)(C)Br
Mol. weight [g/mol]: 229.94

Physical Properties

Property code	Value	Unit	Source
gf	20.26	kJ/mol	Joback Method
hf	-107.90	kJ/mol	Joback Method
hfus	8.34	kJ/mol	Joback Method
hvap	37.91	kJ/mol	Joback Method
log10ws	-3.00		Crippen Method
logp	2.943		Crippen Method
mcvol	116.310	ml/mol	McGowan Method
pc	4255.16	kPa	Joback Method
rinpol	972.00		NIST Webbook
tb	442.45	K	Joback Method
tc	666.02	K	Joback Method
tf	253.13	K	Joback Method
vc	0.422	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	197.99	J/mol×K	442.45	Joback Method
cpg	208.61	J/mol×K	479.71	Joback Method
cpg	218.40	J/mol×K	516.97	Joback Method
cpg	227.44	J/mol×K	554.24	Joback Method
cpg	235.76	J/mol×K	591.50	Joback Method
cpg	243.45	J/mol×K	628.76	Joback Method
cpg	250.54	J/mol×K	666.02	Joback Method
dvisc	0.0063006	Pa×s	253.13	Joback Method
dvisc	0.0030873	Pa×s	284.68	Joback Method

dvisc	0.0017442	Pa×s	316.24	Joback Method
dvisc	0.0010930	Pa×s	347.79	Joback Method
dvisc	0.0007403	Pa×s	379.34	Joback Method
dvisc	0.0005323	Pa×s	410.90	Joback Method
dvisc	0.0004012	Pa×s	442.45	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=R559409&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
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