

Propanoic acid, 3-bromo-2-(bromomethyl)-

Other names:	«beta», «beta»-Dibromoisobutyric acid Propionic acid, 3-bromo-2-(bromomethyl)- 3-BROMO-2-(BROMOMETHYL)PROPIONIC ACID
Inchi:	InChI=1S/C4H6Br2O2/c5-1-3(2-6)4(7)8/h3H,1-2H2,(H,7,8)
InchiKey:	QQZJWQCLWOQDQV-UHFFFAOYSA-N
Formula:	C4H6Br2O2
SMILES:	O=C(O)C(CBr)CBr
Mol. weight [g/mol]:	245.90
CAS:	41459-42-1

Physical Properties

Property code	Value	Unit	Source
gf	-256.74	kJ/mol	Joback Method
hf	-343.32	kJ/mol	Joback Method
hfus	18.85	kJ/mol	Joback Method
hvap	60.41	kJ/mol	Joback Method
log10ws	-1.22		Crippen Method
logp	1.477		Crippen Method
mcvol	109.660	ml/mol	McGowan Method
pc	5908.07	kPa	Joback Method
tb	568.85	K	Joback Method
tc	776.12	K	Joback Method
tf	350.19	K	Joback Method
vc	0.403	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	200.72	J/molxK	568.85	Joback Method
cpg	226.16	J/molxK	741.58	Joback Method
cpg	221.74	J/molxK	707.03	Joback Method
cpg	217.01	J/molxK	672.49	Joback Method
cpg	211.95	J/molxK	637.94	Joback Method
cpg	206.53	J/molxK	603.40	Joback Method

cpg	230.30	J/mol×K	776.12	Joback Method
dvisc	0.0001734	Paxs	568.85	Joback Method
dvisc	0.0002567	Paxs	532.41	Joback Method
dvisc	0.0004026	Paxs	495.96	Joback Method
dvisc	0.0006781	Paxs	459.52	Joback Method
dvisc	0.0012494	Paxs	423.08	Joback Method
dvisc	0.0025833	Paxs	386.63	Joback Method
dvisc	0.0062127	Paxs	350.19	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C41459421&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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