2-Propanol, 1-bromo-

Other names:	1-Bromo-2-propanol
	2-Hydroxy-2-methylethyl bromide
	2-Hydroxypropyl bromide
	Propylene bromohydrin
	1-Bromo-2-hydroxypropane
	1-bromopropan-2-ol
Inchi:	InChI=1S/C3H7BrO/c1-3(5)2-4/h3,5H,2H2,1H3
InchiKey:	WEGOLYBUWCMMMY-UHFFFAOYSA-N
Formula:	C3H7BrO
SMILES:	CC(O)CBr
Mol. weight [g/mol]:	138.99
CAS:	19686-73-8

Physical Properties

Property code	Value	Unit	Source
gf	-150.56	kJ/mol	Joback Method
hf	-236.43	kJ/mol	Joback Method
hfus	9.38	kJ/mol	Joback Method
hvap	45.00	kJ/mol	Joback Method
log10ws	-0.89		Crippen Method
logp	0.762		Crippen Method
mcvol	76.500	ml/mol	McGowan Method
pc	5594.19	kPa	Joback Method
tb	419.70	K	NIST Webbook
tc	610.84	K	Joback Method
tf	229.19	K	Joback Method
vc	0.279	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	129.15	J/mol×K	425.94	Joback Method
cpg	135.04	J/mol×K	456.76	Joback Method
cpg	140.63	J/mol×K	487.57	Joback Method

cpg	145.95	J/mol×K	518.39	Joback Method
cpg	151.01	J/mol×K	549.21	Joback Method
cpg	155.81	J/mol×K	580.03	Joback Method
cpg	160.37	J/mol×K	610.84	Joback Method
dvisc	0.0745644	Pa×s	229.19	Joback Method
dvisc	0.0176820	Pa×s	261.98	Joback Method
dvisc	0.0057755	Pa×s	294.77	Joback Method
dvisc	0.0023601	Pa×s	327.56	Joback Method
dvisc	0.0011351	Pa×s	360.36	Joback Method
dvisc	0.0006168	Pa×s	393.15	Joback Method
dvisc	0.0003682	Pa×s	425.94	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=C19686738&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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