

dl-2,3-Dibromo-1,4-butanediol

Other names:	1,4-Butanediol, 2,3-dibromo-, (R*,R*)-(./-./-)- 1,4-BUTANEDIOL, 2,3-DIBROMO-, (+,-)- 1,4-Butanediol, d,l-2,3-dibromo- .+/-.-2,3-Dibromo-1,4-butanediol (R*,R*)-(±)-2,3-dibromobutane-1,4-diol
Inchi:	InChI=1S/C4H8Br2O2/c5-3(1-7)4(6)2-8/h3-4,7-8H,1-2H2
InchiKey:	OXYNQEOLHRWEPE-UHFFFAOYSA-N
Formula:	C4H8Br2O2
SMILES:	OCC(Br)C(Br)CO
Mol. weight [g/mol]:	247.91
CAS:	1947-58-6

Physical Properties

Property code	Value	Unit	Source
gf	-267.08	kJ/mol	Joback Method
hf	-388.25	kJ/mol	Joback Method
hfus	17.82	kJ/mol	Joback Method
hvap	69.95	kJ/mol	Joback Method
log10ws	-1.11		Crippen Method
logp	0.498		Crippen Method
mcvol	113.960	ml/mol	McGowan Method
pc	6259.01	kPa	Joback Method
tb	606.72	K	Joback Method
tc	797.70	K	Joback Method
tf	346.08	K	Joback Method
vc	0.409	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	259.20	J/molxK	797.70	Joback Method
cpg	229.35	J/molxK	606.72	Joback Method
cpg	235.10	J/molxK	638.55	Joback Method
cpg	240.50	J/molxK	670.38	Joback Method

cpg	245.59	J/molxK	702.21	Joback Method
cpg	250.39	J/molxK	734.04	Joback Method
cpg	254.91	J/molxK	765.87	Joback Method
dvisc	0.0000437	Paxs	606.72	Joback Method
dvisc	0.0163136	Paxs	346.08	Joback Method
dvisc	0.0035058	Paxs	389.52	Joback Method
dvisc	0.0010257	Paxs	432.96	Joback Method
dvisc	0.0003755	Paxs	476.40	Joback Method
dvisc	0.0001626	Paxs	519.84	Joback Method
dvisc	0.0000801	Paxs	563.28	Joback Method
hfust	29.29	kJ/mol	363.20	NIST Webbook

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	422.20	K	0.10	NIST Webbook

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=C1947586&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
hfust:	Enthalpy of fusion at a given temperature
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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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