

# 1,3-Propanediol, 2,2-bis(bromomethyl)-

<b>Other names:</b>	Dibromoneopentyl glycol Dibromopentaerythritol Pentaerythritol dibromide Pentaerythritol dibromohydrin 1,3-Dibromo-2,2-dimethylolpropane 2,2-Bis(bromomethyl)-1,3-propanediol 2,2-Dibromomethyl-1,3-propanediol FR 1138 NCI-C55516 1,3-Propanediol, 2,2-bis(2-bromomethyl)- 2,2-Bis(2-bromomethyl)-1,3-propanediol 1,3-Dibromo-2,2-dihydroxymethylpropane FR 522 DBNPG NSC 9001 2,2-bis(bromomethyl)propane-1,3-diol
<b>Inchi:</b>	InChI=1S/C5H10Br2O2/c6-1-5(2-7,3-8)4-9/h8-9H,1-4H2
<b>InchiKey:</b>	CHUGKEQJSLOLHL-UHFFFAOYSA-N
<b>Formula:</b>	C5H10Br2O2
<b>SMILES:</b>	OCC(CO)(CBr)CBr
<b>Mol. weight [g/mol]:</b>	261.94
<b>CAS:</b>	3296-90-0

## Physical Properties

Property code	Value	Unit	Source
gf	-250.94	kJ/mol	Joback Method
hf	-407.08	kJ/mol	Joback Method
hfus	20.04	kJ/mol	Joback Method
hvap	71.66	kJ/mol	Joback Method
log10ws	-1.06		Crippen Method
logp	0.747		Crippen Method
mcvol	128.050	ml/mol	McGowan Method
pc	5430.51	kPa	Joback Method
tb	627.25	K	Joback Method
tc	818.86	K	Joback Method
tf	389.77	K	Joback Method
vc	0.467	m3/kmol	Joback Method

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# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	276.63	J/molxK	627.25	Joback Method
cpg	283.17	J/molxK	659.19	Joback Method
cpg	289.29	J/molxK	691.12	Joback Method
cpg	295.01	J/molxK	723.06	Joback Method
cpg	300.38	J/molxK	754.99	Joback Method
cpg	305.44	J/molxK	786.93	Joback Method
cpg	310.22	J/molxK	818.86	Joback Method
dvisc	0.0044873	Paxs	389.77	Joback Method
dvisc	0.0013654	Paxs	429.35	Joback Method
dvisc	0.0005079	Paxs	468.93	Joback Method
dvisc	0.0002204	Paxs	508.51	Joback Method
dvisc	0.0001079	Paxs	548.09	Joback Method
dvisc	0.0000581	Paxs	587.67	Joback Method
dvisc	0.0000339	Paxs	627.25	Joback Method
hfust	30.10	kJ/mol	387.30	NIST Webbook

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C3296900&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3296900&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions

<b>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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