

# 1,4-Dibromo-2-butanol

<b>Other names:</b>	2-Butanol, 1,4-dibromo- 1,4-Dibromobutan-2-ol
<b>Inchi:</b>	InChI=1S/C4H8Br2O/c5-2-1-4(7)3-6/h4,7H,1-3H2
<b>InchiKey:</b>	PSSRAPMBSMSACN-UHFFFAOYSA-N
<b>Formula:</b>	C4H8Br2O
<b>SMILES:</b>	OC(CBr)CCBr
<b>Mol. weight [g/mol]:</b>	231.91
<b>CAS:</b>	19398-47-1

## Physical Properties

Property code	Value	Unit	Source
gf	-127.82	kJ/mol	Joback Method
hf	-230.74	kJ/mol	Joback Method
hfus	17.25	kJ/mol	Joback Method
hvap	53.66	kJ/mol	Joback Method
log10ws	-1.74		Crippen Method
logp	1.527		Crippen Method
mvol	108.090	ml/mol	McGowan Method
pc	5374.91	kPa	Joback Method
tb	514.98	K	Joback Method
tc	713.75	K	Joback Method
tf	300.26	K	Joback Method
vc	0.397	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	194.16	J/molxK	514.98	Joback Method
cpg	224.04	J/molxK	680.62	Joback Method
cpg	218.77	J/molxK	647.50	Joback Method
cpg	213.17	J/molxK	614.37	Joback Method
cpg	207.22	J/molxK	581.24	Joback Method
cpg	200.89	J/molxK	548.11	Joback Method
cpg	229.01	J/molxK	713.75	Joback Method

dvisc	0.0002148	Paxs	514.98	Joback Method
dvisc	0.0003325	Paxs	479.19	Joback Method
dvisc	0.0005525	Paxs	443.41	Joback Method
dvisc	0.0010034	Paxs	407.62	Joback Method
dvisc	0.0020443	Paxs	371.83	Joback Method
dvisc	0.0048466	Paxs	336.05	Joback Method
dvisc	0.0141153	Paxs	300.26	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	387.70	K	1.70	NIST Webbook
tbrp	429.50 ± 3.50	K	6.00	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C19398471&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C19398471&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>

## 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>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

**tbrp:** Boiling point at reduced pressure  
**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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