

# 3-Bromo-2,2-dimethyl-1-propanol

Inchi:	InChI=1S/C5H11BrO/c1-5(2,3-6)4-7/h7H,3-4H2,1-2H3
InchiKey:	KQOQXYPZBYTICM-UHFFFAOYSA-N
Formula:	C5H11BrO
SMILES:	CC(C)(CO)CBr
Mol. weight [g/mol]:	167.04
CAS:	40894-00-6

## Physical Properties

Property code	Value	Unit	Source
gf	-128.44	kJ/mol	Joback Method
hf	-281.18	kJ/mol	Joback Method
hfus	10.66	kJ/mol	Joback Method
hvap	48.54	kJ/mol	Joback Method
log10ws	-1.37		Crippen Method
logp	1.400		Crippen Method
mcvol	104.680	ml/mol	McGowan Method
pc	4339.67	kPa	Joback Method
tb	458.70	K	NIST Webbook
tc	657.78	K	Joback Method
tf	269.15	K	Joback Method
vc	0.386	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	206.92	J/molxK	468.91	Joback Method
cpg	215.94	J/molxK	500.39	Joback Method
cpg	224.42	J/molxK	531.87	Joback Method
cpg	232.39	J/molxK	563.35	Joback Method
cpg	239.87	J/molxK	594.83	Joback Method
cpg	246.89	J/molxK	626.30	Joback Method
cpg	253.50	J/molxK	657.78	Joback Method
dvisc	0.0312926	Paxs	269.15	Joback Method
dvisc	0.0090766	Paxs	302.44	Joback Method

dvisc	0.0033652	Paxs	335.74	Joback Method
dvisc	0.0014923	Paxs	369.03	Joback Method
dvisc	0.0007571	Paxs	402.32	Joback Method
dvisc	0.0004261	Paxs	435.62	Joback Method
dvisc	0.0002602	Paxs	468.91	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C40894006&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C40894006&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
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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