

# 8-Bromo-1-octanol

<b>Other names:</b>	1-Octanol, 8-bromo- 8-bromooctan-1-ol
<b>Inchi:</b>	InChI=1S/C8H17BrO/c9-7-5-3-1-2-4-6-8-10/h10H,1-8H2
<b>InchiKey:</b>	GMXIEASXPUEOTG-UHFFFAOYSA-N
<b>Formula:</b>	C8H17BrO
<b>SMILES:</b>	OCCCCCCCCBr
<b>Mol. weight [g/mol]:</b>	209.12
<b>CAS:</b>	50816-19-8

## Physical Properties

Property code	Value	Unit	Source
gf	-106.02	kJ/mol	Joback Method
hf	-334.35	kJ/mol	Joback Method
hfus	25.85	kJ/mol	Joback Method
hvap	56.52	kJ/mol	Joback Method
log10ws	-2.87		Crippen Method
logp	2.714		Crippen Method
mcvol	146.950	ml/mol	McGowan Method
pc	3002.44	kPa	Joback Method
tb	540.78	K	Joback Method
tc	714.07	K	Joback Method
tf	300.54	K	Joback Method
vc	0.565	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	331.34	J/molxK	540.78	Joback Method
cpg	342.44	J/molxK	569.66	Joback Method
cpg	353.05	J/molxK	598.54	Joback Method
cpg	363.19	J/molxK	627.43	Joback Method
cpg	372.87	J/molxK	656.31	Joback Method
cpg	382.12	J/molxK	685.19	Joback Method
cpg	390.95	J/molxK	714.07	Joback Method

dvisc	0.0130696	Paxs	300.54	Joback Method
dvisc	0.0039358	Paxs	340.58	Joback Method
dvisc	0.0015257	Paxs	380.62	Joback Method
dvisc	0.0007084	Paxs	420.66	Joback Method
dvisc	0.0003758	Paxs	460.70	Joback Method
dvisc	0.0002206	Paxs	500.74	Joback Method
dvisc	0.0001402	Paxs	540.78	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C50816198&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C50816198&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>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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