

# 2-Piperidinemethanol

<b>Other names:</b>	2-(hydroxymethyl)piperidine piperidin-2-ylmethanol
<b>Inchi:</b>	InChI=1S/C6H13NO/c8-5-6-3-1-2-4-7-6/h6-8H,1-5H2
<b>InchiKey:</b>	PRAYXGYVXRDDW-UHFFFAOYSA-N
<b>Formula:</b>	C6H13NO
<b>SMILES:</b>	OCC1CCCCN1
<b>Mol. weight [g/mol]:</b>	115.17
<b>CAS:</b>	3433-37-2

## Physical Properties

Property code	Value	Unit	Source
gf	-25.02	kJ/mol	Joback Method
hf	-227.27	kJ/mol	Joback Method
hfus	16.81	kJ/mol	Joback Method
hvap	52.82	kJ/mol	Joback Method
log10ws	-0.79		Crippen Method
logp	0.121		Crippen Method
mcvol	100.390	ml/mol	McGowan Method
pc	4615.13	kPa	Joback Method
tb	496.96	K	Joback Method
tc	698.33	K	Joback Method
tf	330.61	K	Joback Method
vc	0.360	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	228.57	J/mol×K	496.96	Joback Method
cpg	241.67	J/mol×K	530.52	Joback Method
cpg	254.14	J/mol×K	564.08	Joback Method
cpg	266.00	J/mol×K	597.65	Joback Method
cpg	277.24	J/mol×K	631.21	Joback Method
cpg	287.89	J/mol×K	664.77	Joback Method
cpg	297.96	J/mol×K	698.33	Joback Method

# Sources

<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=C3433372&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3433372&amp;Units=SI</a>
<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>A comparative study of the volumetric properties of aqueous solutions of Joback Method:</b>	<a href="https://www.doi.org/10.1016/j.fluid.2012.10.024">https://www.doi.org/10.1016/j.fluid.2012.10.024</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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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