

# 4-Piperidinemethanamine

<b>Other names:</b>	4-(Aminomethyl)piperidine Piperidine, 4-(aminomethyl)- 4-(Amionomethyl)piperidine 4-piperidylmethanamine
<b>Inchi:</b>	InChI=1S/C6H14N2/c7-5-6-1-3-8-4-2-6/h6,8H,1-5,7H2
<b>InchiKey:</b>	LTEKQAPRXFBRNN-UHFFFAOYSA-N
<b>Formula:</b>	C6H14N2
<b>SMILES:</b>	NCC1CCNCC1
<b>Mol. weight [g/mol]:</b>	114.19
<b>CAS:</b>	7144-05-0

## Physical Properties

Property code	Value	Unit	Source
gf	178.25	kJ/mol	Joback Method
hf	-41.25	kJ/mol	Joback Method
hfus	17.92	kJ/mol	Joback Method
hvap	46.78	kJ/mol	Joback Method
log10ws	-0.61		Crippen Method
logp	-0.055		Crippen Method
mcvol	104.500	ml/mol	McGowan Method
pc	4403.25	kPa	Joback Method
tb	473.20	K	NIST Webbook
tc	705.19	K	Joback Method
tf	353.05	K	Joback Method
vc	0.370	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	232.28	J/molxK	477.31	Joback Method
cpg	248.09	J/molxK	515.29	Joback Method
cpg	263.05	J/molxK	553.27	Joback Method
cpg	277.18	J/molxK	591.25	Joback Method
cpg	290.50	J/molxK	629.23	Joback Method

cpg	303.03	J/mol×K	667.21	Joback Method
cpg	314.77	J/mol×K	705.19	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C7144050&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7144050&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>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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