

# Piperazine, 2,3-dimethyl-

<b>Inchi:</b>	InChI=1S/C6H14N2/c1-5-6(2)8-4-3-7-5/h5-8H,3-4H2,1-2H3
<b>InchiKey:</b>	COWPTMLRSANSMQ-UHFFFAOYSA-N
<b>Formula:</b>	C6H14N2
<b>SMILES:</b>	CC1NCCNC1C
<b>Mol. weight [g/mol]:</b>	114.19
<b>CAS:</b>	84468-52-0

## Physical Properties

Property code	Value	Unit	Source
gf	191.80	kJ/mol	Joback Method
hf	-57.57	kJ/mol	Joback Method
hfus	23.38	kJ/mol	Joback Method
hvap	42.59	kJ/mol	Joback Method
log10ws	-0.83		Crippen Method
logp	-0.044		Crippen Method
mcvol	104.500	ml/mol	McGowan Method
pc	4046.64	kPa	Joback Method
tb	448.66	K	Joback Method
tc	670.21	K	Joback Method
tf	370.58	K	Joback Method
vc	0.378	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	216.08	J/molxK	448.66	Joback Method
cpg	232.09	J/molxK	485.59	Joback Method
cpg	247.43	J/molxK	522.51	Joback Method
cpg	262.10	J/molxK	559.44	Joback Method
cpg	276.10	J/molxK	596.36	Joback Method
cpg	289.42	J/molxK	633.29	Joback Method
cpg	302.05	J/molxK	670.21	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C84468520&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C84468520&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>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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