

# 3-Pyrrolidinol

<b>Other names:</b>	3-Hydroxypyrrolidine pyrrolidin-3-ol
<b>Inchi:</b>	InChI=1S/C4H9NO/c6-4-1-2-5-3-4/h4-6H,1-3H2
<b>InchiKey:</b>	JHHZLHWJQPUNKB-UHFFFAOYSA-N
<b>Formula:</b>	C4H9NO
<b>SMILES:</b>	OC1CCNC1
<b>Mol. weight [g/mol]:</b>	87.12
<b>CAS:</b>	40499-83-0

## Physical Properties

Property code	Value	Unit	Source
gf	-29.76	kJ/mol	Joback Method
hf	-179.83	kJ/mol	Joback Method
hfus	13.73	kJ/mol	Joback Method
hvap	48.19	kJ/mol	Joback Method
log10ws	0.04		Crippen Method
logp	-0.659		Crippen Method
mvol	72.210	ml/mol	McGowan Method
pc	5871.90	kPa	Joback Method
tb	446.93	K	Joback Method
tc	645.80	K	Joback Method
tf	311.59	K	Joback Method
vc	0.257	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	147.17	J/molxK	446.93	Joback Method
cpg	157.12	J/molxK	480.08	Joback Method
cpg	166.61	J/molxK	513.22	Joback Method
cpg	175.63	J/molxK	546.37	Joback Method
cpg	184.20	J/molxK	579.51	Joback Method
cpg	192.34	J/molxK	612.66	Joback Method
cpg	200.05	J/molxK	645.80	Joback Method

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	382.20	K	1.00	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C40499830&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C40499830&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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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