

# N,N'-Dimethyl-5-pyrrolidinone-3-carboxamide

<b>Inchi:</b>	InChI=1S/C7H12N2O2/c1-9(2)7(11)5-3-6(10)8-4-5/h5H,3-4H2,1-2H3,(H,8,10)
<b>InchiKey:</b>	GSQWLEXOXRWOGW-UHFFFAOYSA-N
<b>Formula:</b>	C7H12N2O2
<b>SMILES:</b>	CN(C)C(=O)C1CNC(=O)C1
<b>Mol. weight [g/mol]:</b>	156.18
<b>CAS:</b>	89851-99-0

## Physical Properties

Property code	Value	Unit	Source
gf	-8.41	kJ/mol	Joback Method
hf	-272.27	kJ/mol	Joback Method
hfus	21.54	kJ/mol	Joback Method
hvap	51.23	kJ/mol	Joback Method
log10ws	0.28		Crippen Method
logp	-0.789		Crippen Method
mcvol	121.730	ml/mol	McGowan Method
pc	3960.52	kPa	Joback Method
tb	557.52	K	Joback Method
tc	784.51	K	Joback Method
tf	435.20	K	Joback Method
vc	0.436	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	298.44	J/molxK	557.52	Joback Method
cpg	313.32	J/molxK	595.35	Joback Method
cpg	327.38	J/molxK	633.18	Joback Method
cpg	340.63	J/molxK	671.01	Joback Method
cpg	353.06	J/molxK	708.85	Joback Method
cpg	364.67	J/molxK	746.68	Joback Method
cpg	375.46	J/molxK	784.51	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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=C89851990&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C89851990&amp;Units=SI</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>mccvol:</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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