

# N-Methylpivalamide

<b>Other names:</b>	N-Methyltrimethylacetamide 2,2,N-Trimethylpropanamide
<b>Inchi:</b>	InChI=1S/C6H13NO/c1-6(2,3)5(8)7-4/h1-4H3,(H,7,8)
<b>InchiKey:</b>	QMKKJBRRKIKWFK-UHFFFAOYSA-N
<b>Formula:</b>	C6H13NO
<b>SMILES:</b>	CNC(=O)C(C)(C)C
<b>Mol. weight [g/mol]:</b>	115.17
<b>CAS:</b>	6830-83-7

## Physical Properties

Property code	Value	Unit	Source
basg	878.00 ± 5.00	kJ/mol	NIST Webbook
gf	-37.05	kJ/mol	Joback Method
hf	-235.03	kJ/mol	Joback Method
hfus	10.58	kJ/mol	Joback Method
hvap	40.84	kJ/mol	Joback Method
log10ws	-1.06		Crippen Method
logp	0.778		Crippen Method
mcvol	106.950	ml/mol	McGowan Method
pc	3464.28	kPa	Joback Method
tb	437.49	K	Joback Method
tc	631.32	K	Joback Method
tf	262.39	K	Joback Method
vc	0.402	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	220.96	J/molxK	437.49	Joback Method
cpg	233.01	J/molxK	469.80	Joback Method
cpg	244.39	J/molxK	502.10	Joback Method
cpg	255.14	J/molxK	534.41	Joback Method
cpg	265.29	J/molxK	566.71	Joback Method
cpg	274.86	J/molxK	599.02	Joback Method

cpg	283.87	J/mol×K	631.32	Joback Method
cps	183.00	J/mol×K	298.15	NIST Webbook

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	380.50 ± 2.50	K	2.00	NIST Webbook

## Sources

<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=C6830837&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6830837&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>

## Legend

<b>basg:</b>	Gas basicity
<b>cpg:</b>	Ideal gas heat capacity
<b>cps:</b>	Solid phase 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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