

# N-Methyl-p-toluamide

<b>Inchi:</b>	InChI=1S/C9H11NO/c1-7-3-5-8(6-4-7)9(11)10-2/h3-6H,1-2H3,(H,10,11)
<b>InchiKey:</b>	FZIOOTTWDRFBKU-UHFFFAOYSA-N
<b>Formula:</b>	C9H11NO
<b>SMILES:</b>	CNC(=O)c1ccc(C)cc1
<b>Mol. weight [g/mol]:</b>	149.19
<b>CAS:</b>	18370-11-1

## Physical Properties

Property code	Value	Unit	Source
gf	88.15	kJ/mol	Joback Method
hf	-63.14	kJ/mol	Joback Method
hfus	19.42	kJ/mol	Joback Method
hvap	51.75	kJ/mol	Joback Method
log10ws	-2.29		Crippen Method
logp	1.355		Crippen Method
mcvol	125.460	ml/mol	McGowan Method
pc	3501.28	kPa	Joback Method
tb	541.02	K	Joback Method
tc	761.01	K	Joback Method
tf	332.72	K	Joback Method
vc	0.472	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	278.01	J/molxK	541.02	Joback Method
cpg	290.70	J/molxK	577.69	Joback Method
cpg	302.62	J/molxK	614.35	Joback Method
cpg	313.78	J/molxK	651.02	Joback Method
cpg	324.22	J/molxK	687.68	Joback Method
cpg	333.96	J/molxK	724.35	Joback Method
cpg	343.05	J/molxK	761.01	Joback Method

# 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=C18370111&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C18370111&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>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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