

# N-methyl-o-acetotoluidide

<b>Other names:</b>	N-methyl-N-(2-methylphenyl)acetamide
<b>Inchi:</b>	InChI=1S/C10H13NO/c1-8-6-4-5-7-10(8)11(3)9(2)12/h4-7H,1-3H3
<b>InchiKey:</b>	QKIDBCKIVIQWLL-UHFFFAOYSA-N
<b>Formula:</b>	C10H13NO
<b>SMILES:</b>	CC(=O)N(C)c1ccccc1C
<b>Mol. weight [g/mol]:</b>	163.22
<b>CAS:</b>	573-26-2

## Physical Properties

Property code	Value	Unit	Source
gf	117.96	kJ/mol	Joback Method
hf	-69.72	kJ/mol	Joback Method
hfus	19.93	kJ/mol	Joback Method
hvap	49.58	kJ/mol	Joback Method
log10ws	-2.05		Crippen Method
logp	1.978		Crippen Method
mcvol	139.550	ml/mol	McGowan Method
pc	3082.99	kPa	Joback Method
tb	526.17	K	Joback Method
tc	739.11	K	Joback Method
tf	323.80	K	Joback Method
vc	0.511	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	310.22	J/mol×K	526.17	Joback Method
cpg	324.55	J/mol×K	561.66	Joback Method
cpg	338.00	J/mol×K	597.15	Joback Method
cpg	350.61	J/mol×K	632.64	Joback Method
cpg	362.42	J/mol×K	668.13	Joback Method
cpg	373.47	J/mol×K	703.62	Joback Method
cpg	383.78	J/mol×K	739.11	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=C573262&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C573262&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>

# 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

Latest version available from:

<https://www.chemeo.com/cid/45-718-5/N-methyl-o-acetotoluidide.pdf>

Generated by Cheméo on 2024-10-10 08:45:53.004755362 +0000 UTC m=+3130815.641724614.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.