

# N,N,2,6-Tetramethyl-4-nitroaniline

<b>Inchi:</b>	InChI=1S/C10H14N2O2/c1-7-5-9(12(13)14)6-8(2)10(7)11(3)4/h5-6H,1-4H3
<b>InchiKey:</b>	CCELYGJVZZYHES-UHFFFAOYSA-N
<b>Formula:</b>	C10H14N2O2
<b>SMILES:</b>	Cc1cc([N+](=O)[O-])cc(C)c1N(C)C
<b>Mol. weight [g/mol]:</b>	194.23
<b>CAS:</b>	24558-36-9

## Physical Properties

Property code	Value	Unit	Source
affp	918.40	kJ/mol	NIST Webbook
basg	886.00	kJ/mol	NIST Webbook
gf	263.17	kJ/mol	Joback Method
hf	9.16	kJ/mol	Joback Method
hfus	28.91	kJ/mol	Joback Method
hvap	60.75	kJ/mol	Joback Method
log10ws	-2.98		Crippen Method
logp	2.278		Crippen Method
mcvol	155.400	ml/mol	McGowan Method
pc	2823.32	kPa	Joback Method
tb	634.10	K	Joback Method
tc	866.73	K	Joback Method
tf	442.52	K	Joback Method
vc	0.588	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	392.68	J/mol×K	634.10	Joback Method
cpg	406.67	J/mol×K	672.87	Joback Method
cpg	419.73	J/mol×K	711.64	Joback Method
cpg	431.90	J/mol×K	750.41	Joback Method
cpg	443.24	J/mol×K	789.19	Joback Method
cpg	453.77	J/mol×K	827.96	Joback Method
cpg	463.53	J/mol×K	866.73	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=C24558369&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C24558369&amp;Units=SI</a>
<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>

# Legend

<b>affp:</b>	Proton affinity
<b>basg:</b>	Gas basicity
<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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