

# Aniline, n-tert-butyl-n-methyl-

<b>Inchi:</b>	InChI=1S/C11H17N/c1-11(2,3)12(4)10-8-6-5-7-9-10/h5-9H,1-4H3
<b>InchiKey:</b>	WIZSMOISUQQDDU-UHFFFAOYSA-N
<b>Formula:</b>	C11H17N
<b>SMILES:</b>	CN(c1ccccc1)C(C)(C)C
<b>Mol. weight [g/mol]:</b>	163.26
<b>CAS:</b>	70974-88-8

## Physical Properties

Property code	Value	Unit	Source
gf	267.77	kJ/mol	Joback Method
hf	24.94	kJ/mol	Joback Method
hfus	13.89	kJ/mol	Joback Method
hvap	43.10	kJ/mol	Joback Method
log10ws	-2.75		Crippen Method
logp	2.921		Crippen Method
mcvol	152.070	ml/mol	McGowan Method
pc	2695.80	kPa	Joback Method
tb	486.97	K	Joback Method
tc	699.41	K	Joback Method
tf	275.04	K	Joback Method
vc	0.550	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	336.06	J/molxK	486.97	Joback Method
cpg	354.31	J/molxK	522.38	Joback Method
cpg	371.34	J/molxK	557.78	Joback Method
cpg	387.20	J/molxK	593.19	Joback Method
cpg	401.97	J/molxK	628.60	Joback Method
cpg	415.71	J/molxK	664.00	Joback Method
cpg	428.49	J/molxK	699.41	Joback Method

# Sources

<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=C70974888&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C70974888&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>
<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>

# 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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