

# Acetanilide, 2,4-di-tert-butyl-n-methyl-

<b>Inchi:</b>	InChI=1S/C17H27NO/c1-12(19)18(8)15-10-9-13(16(2,3)4)11-14(15)17(5,6)7/h9-11H,1-8
<b>InchiKey:</b>	AYGAAGMCZHPNQB-UHFFFAOYSA-N
<b>Formula:</b>	C17H27NO
<b>SMILES:</b>	CC(=O)N(C)c1ccc(C(C)(C)C)cc1C(C)(C)C
<b>Mol. weight [g/mol]:</b>	261.40

## Physical Properties

Property code	Value	Unit	Source
gf	172.95	kJ/mol	Joback Method
hf	-243.17	kJ/mol	Joback Method
hfus	22.84	kJ/mol	Joback Method
hvap	63.23	kJ/mol	Joback Method
log10ws	-4.20		Crippen Method
logp	4.264		Crippen Method
mcvol	238.180	ml/mol	McGowan Method
pc	1665.97	kPa	Joback Method
tb	684.85	K	Joback Method
tc	898.64	K	Joback Method
tf	420.05	K	Joback Method
vc	0.881	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	670.40	J/molxK	684.85	Joback Method
cpg	689.43	J/molxK	720.48	Joback Method
cpg	707.19	J/molxK	756.11	Joback Method
cpg	723.77	J/molxK	791.74	Joback Method
cpg	739.25	J/molxK	827.38	Joback Method
cpg	753.73	J/molxK	863.01	Joback Method
cpg	767.30	J/molxK	898.64	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=B6009287&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=B6009287&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

Latest version available from:

<https://www.chemeo.com/cid/82-961-4/Acetanilide-2-4-di-tert-butyl-n-methyl.pdf>

Generated by Cheméo on 2024-11-11 13:57:38.905101858 +0000 UTC m=+5914321.542071106.

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