

# Acetanilide, 6-tert-butyl-2,4-dimethyl-

Inchi:	lnChI=1S/C14H21NO/c1-9-7-10(2)13(15-11(3)16)12(8-9)14(4,5)6/h7-8H,1-6H3,(H,15,16)
InchiKey:	FVHRNYIVAVWDKU-UHFFFAOYSA-N
Formula:	C14H21NO
SMILES:	CC(O)=Nc1c(C)cc(C)cc1C(C)(C)C
Mol. weight [g/mol]:	219.32
CAS:	110491-71-9

## Physical Properties

Property code	Value	Unit	Source
hf	-218.72	kJ/mol	Joback Method
hvap	69.80	kJ/mol	Joback Method
log10ws	-4.12		Crippen Method
logp	4.209		Crippen Method
mcvol	195.910	ml/mol	McGowan Method
pc	1949.23	kPa	Joback Method
tb	726.85	K	Joback Method
tc	938.78	K	Joback Method

## Sources

Joback Method:	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
McGowan Method:	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C110491719&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C110491719&amp;Units=SI</a>
Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	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

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