

# Aniline, 2,4-di-tert-butyl-

<b>Inchi:</b>	InChI=1S/C14H23N/c1-13(2,3)10-7-8-12(15)11(9-10)14(4,5)6/h7-9H,15H2,1-6H3
<b>InchiKey:</b>	PWGOAQYJIYOGBG-UHFFFAOYSA-N
<b>Formula:</b>	C14H23N
<b>SMILES:</b>	CC(C)(C)c1ccc(N)c(C(C)(C)C)c1
<b>Mol. weight [g/mol]:</b>	205.34
<b>CAS:</b>	2909-84-4

## Physical Properties

Property code	Value	Unit	Source
gf	232.28	kJ/mol	Joback Method
hf	-102.41	kJ/mol	Joback Method
hfus	15.65	kJ/mol	Joback Method
hvap	58.41	kJ/mol	Joback Method
log10ws	-3.73		Crippen Method
logp	3.864		Crippen Method
mcvol	194.340	ml/mol	McGowan Method
pc	2131.49	kPa	Joback Method
tb	622.43	K	Joback Method
tc	851.32	K	Joback Method
tf	387.10	K	Joback Method
vc	0.719	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	517.66	J/molxK	622.43	Joback Method
cpg	536.40	J/molxK	660.58	Joback Method
cpg	553.83	J/molxK	698.73	Joback Method
cpg	570.02	J/molxK	736.88	Joback Method
cpg	585.08	J/molxK	775.03	Joback Method
cpg	599.10	J/molxK	813.17	Joback Method
cpg	612.17	J/molxK	851.32	Joback Method

# Sources

<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=C2909844&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2909844&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>

# 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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