

# Benzoic acid, 3-(tert.-butyl)amino-, methyl ester

Inchi:	InChI=1S/C12H17NO2/c1-12(2,3)13-10-7-5-6-9(8-10)11(14)15-4/h5-8,13H,1-4H3
InchiKey:	IAJKNZYHCJHENC-UHFFFAOYSA-N
Formula:	C12H17NO2
SMILES:	<chem>COC(=O)c1cccc(NC(C)(C)C)c1</chem>
Mol. weight [g/mol]:	207.27

## Physical Properties

Property code	Value	Unit	Source
gf	11.25	kJ/mol	Joback Method
hf	-266.03	kJ/mol	Joback Method
hfus	20.96	kJ/mol	Joback Method
hvap	59.54	kJ/mol	Joback Method
log10ws	-3.09		Crippen Method
logp	2.684		Crippen Method
mcvol	173.600	ml/mol	McGowan Method
pc	2561.10	kPa	Joback Method
rinpol	1636.00		NIST Webbook
rinpol	1636.00		NIST Webbook
tb	628.85	K	Joback Method
tc	847.63	K	Joback Method
tf	391.18	K	Joback Method
vc	0.647	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	448.58	J/molxK	628.85	Joback Method
cpg	463.92	J/molxK	665.31	Joback Method
cpg	478.24	J/molxK	701.78	Joback Method
cpg	491.59	J/molxK	738.24	Joback Method
cpg	504.00	J/molxK	774.70	Joback Method
cpg	515.53	J/molxK	811.16	Joback Method
cpg	526.22	J/molxK	847.63	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=U375337&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U375337&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>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>rinpola:</b>	Non-polar retention indices
<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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