

# Butyl 3,4-dimethylbenzoate

<b>Other names:</b>	Benzoic acid, 3,4-dimethyl-, n-butyl ester
<b>Inchi:</b>	InChI=1S/C13H18O2/c1-4-5-8-15-13(14)12-7-6-10(2)11(3)9-12/h6-7,9H,4-5,8H2,1-3H3
<b>InchiKey:</b>	BWZNCIFOYGRWMO-UHFFFAOYSA-N
<b>Formula:</b>	C13H18O2
<b>SMILES:</b>	CCCCOC(=O)c1ccc(C)c(C)c1
<b>Mol. weight [g/mol]:</b>	206.28

## Physical Properties

Property code	Value	Unit	Source
gf	-82.19	kJ/mol	Joback Method
hf	-342.86	kJ/mol	Joback Method
hfus	25.48	kJ/mol	Joback Method
hvap	57.29	kJ/mol	Joback Method
log10ws	-3.92		Crippen Method
logp	3.260		Crippen Method
mcvol	177.710	ml/mol	McGowan Method
pc	2227.09	kPa	Joback Method
rinpol	1638.00		NIST Webbook
rinpol	1638.00		NIST Webbook
rinpol	1587.00		NIST Webbook
tb	609.77	K	Joback Method
tc	814.57	K	Joback Method
tf	359.89	K	Joback Method
vc	0.679	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	442.69	J/molxK	609.77	Joback Method
cpg	511.58	J/molxK	780.44	Joback Method
cpg	499.35	J/molxK	746.30	Joback Method
cpg	486.36	J/molxK	712.17	Joback Method
cpg	472.59	J/molxK	678.04	Joback Method
cpg	458.04	J/molxK	643.90	Joback Method

cpg	523.06	J/mol×K	814.57	Joback Method
dvisc	0.0001624	Paxs	609.77	Joback Method
dvisc	0.0002024	Paxs	568.12	Joback Method
dvisc	0.0002613	Paxs	526.48	Joback Method
dvisc	0.0003525	Paxs	484.83	Joback Method
dvisc	0.0005029	Paxs	443.18	Joback Method
dvisc	0.0007724	Paxs	401.54	Joback Method
dvisc	0.0013102	Paxs	359.89	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=U373236&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373236&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>dvisc:</b>	Dynamic viscosity
<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>rinpol:</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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