

# n-Butyl 3,4-dimethoxybenzoate

<b>Other names:</b>	Benzoi acid, 3,4-dimethoxy, n-butyl ester
<b>Inchi:</b>	InChI=1S/C13H18O4/c1-4-5-8-17-13(14)10-6-7-11(15-2)12(9-10)16-3/h6-7,9H,4-5,8H2,1
<b>InchiKey:</b>	ABBWKQQUUQIENF-UHFFFAOYSA-N
<b>Formula:</b>	C13H18O4
<b>SMILES:</b>	CCCCOC(=O)c1ccc(OC)c(OC)c1
<b>Mol. weight [g/mol]:</b>	238.28

## Physical Properties

Property code	Value	Unit	Source
gf	-292.19	kJ/mol	Joback Method
hf	-607.30	kJ/mol	Joback Method
hfus	27.85	kJ/mol	Joback Method
hvap	62.11	kJ/mol	Joback Method
log10ws	-3.21		Crippen Method
logp	2.661		Crippen Method
mcvol	189.450	ml/mol	McGowan Method
pc	2157.31	kPa	Joback Method
rinpol	1917.00		NIST Webbook
tb	654.61	K	Joback Method
tc	855.69	K	Joback Method
tf	404.35	K	Joback Method
vc	0.716	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	495.34	J/molxK	654.61	Joback Method
cpg	510.17	J/molxK	688.12	Joback Method
cpg	524.25	J/molxK	721.64	Joback Method
cpg	537.54	J/molxK	755.15	Joback Method
cpg	550.05	J/molxK	788.67	Joback Method
cpg	561.75	J/molxK	822.18	Joback Method
cpg	572.64	J/molxK	855.69	Joback Method
dvisc	0.0007305	Paxs	404.35	Joback Method

dvisc	0.0004518	Paxs	446.06	Joback Method
dvisc	0.0003034	Paxs	487.77	Joback Method
dvisc	0.0002169	Paxs	529.48	Joback Method
dvisc	0.0001628	Paxs	571.19	Joback Method
dvisc	0.0001271	Paxs	612.90	Joback Method
dvisc	0.0001024	Paxs	654.61	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U372926&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U372926&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.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>

## 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

Latest version available from:

<https://www.chemeo.com/cid/45-694-2/n-Butyl-3-4-dimethoxybenzoate.pdf>

Generated by Cheméo on 2024-04-17 02:03:55.318283221 +0000 UTC m=+15608684.238860531.

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