

# Benzoic acid, 4-methoxy-, butyl ester

<b>Other names:</b>	n-Butyl anisate Butyl 4-methoxybenzoate
<b>Inchi:</b>	InChI=1S/C12H16O3/c1-3-4-9-15-12(13)10-5-7-11(14-2)8-6-10/h5-8H,3-4,9H2,1-2H3
<b>InchiKey:</b>	DXKMHDQQRQRYCI-UHFFFAOYSA-N
<b>Formula:</b>	C12H16O3
<b>SMILES:</b>	CCCCOC(=O)c1ccc(OC)cc1
<b>Mol. weight [g/mol]:</b>	208.25
<b>CAS:</b>	6946-35-6

## Physical Properties

Property code	Value	Unit	Source
gf	-185.98	kJ/mol	Joback Method
hf	-442.97	kJ/mol	Joback Method
hfus	24.46	kJ/mol	Joback Method
hvap	56.81	kJ/mol	Joback Method
log10ws	-3.09		Crippen Method
logp	2.652		Crippen Method
mcvol	169.490	ml/mol	McGowan Method
pc	2438.65	kPa	Joback Method
rinpol	1632.00		NIST Webbook
rinpol	1677.00		NIST Webbook
rinpol	1632.00		NIST Webbook
rinpol	1677.00		NIST Webbook
ripol	2305.00		NIST Webbook
ripol	2305.00		NIST Webbook
tb	604.33	K	Joback Method
tc	809.23	K	Joback Method
tf	358.33	K	Joback Method
vc	0.641	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	419.31	J/molxK	604.33	Joback Method

cpg	433.95	J/molxK	638.48	Joback Method
cpg	447.83	J/molxK	672.63	Joback Method
cpg	460.95	J/molxK	706.78	Joback Method
cpg	473.32	J/molxK	740.93	Joback Method
cpg	484.93	J/molxK	775.08	Joback Method
cpg	495.80	J/molxK	809.23	Joback Method
dvisc	0.0012736	Paxs	358.33	Joback Method
dvisc	0.0007362	Paxs	399.33	Joback Method
dvisc	0.0004713	Paxs	440.33	Joback Method
dvisc	0.0003255	Paxs	481.33	Joback Method
dvisc	0.0002383	Paxs	522.33	Joback Method
dvisc	0.0001825	Paxs	563.33	Joback Method
dvisc	0.0001450	Paxs	604.33	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C6946356&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6946356&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>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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