

# Methyl 3-methoxy-4-ethoxybenzoate

<b>Inchi:</b>	InChI=1S/C11H14O4/c1-4-15-9-6-5-8(11(12)14-3)7-10(9)13-2/h5-7H,4H2,1-3H3
<b>InchiKey:</b>	HVLQOCXAZMSAPT-UHFFFAOYSA-N
<b>Formula:</b>	C11H14O4
<b>SMILES:</b>	CCOc1ccc(C(=O)OC)cc1OC
<b>Mol. weight [g/mol]:</b>	210.23
<b>CAS:</b>	3535-24-8

## Physical Properties

Property code	Value	Unit	Source
gf	-309.03	kJ/mol	Joback Method
hf	-566.02	kJ/mol	Joback Method
hfus	22.67	kJ/mol	Joback Method
hvap	57.66	kJ/mol	Joback Method
log10ws	-2.37		Crippen Method
logp	1.881		Crippen Method
mcvol	161.270	ml/mol	McGowan Method
pc	2600.43	kPa	Joback Method
rinpol	1520.00		NIST Webbook
rinpol	1520.00		NIST Webbook
tb	608.85	K	Joback Method
tc	815.75	K	Joback Method
tf	381.81	K	Joback Method
vc	0.604	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	394.96	J/molxK	608.85	Joback Method
cpg	455.79	J/molxK	781.27	Joback Method
cpg	444.99	J/molxK	746.78	Joback Method
cpg	433.48	J/molxK	712.30	Joback Method
cpg	421.30	J/molxK	677.82	Joback Method
cpg	408.45	J/molxK	643.33	Joback Method
cpg	465.87	J/molxK	815.75	Joback Method

dvisc	0.0001254	Paxs	608.85	Joback Method
dvisc	0.0001540	Paxs	571.01	Joback Method
dvisc	0.0001948	Paxs	533.17	Joback Method
dvisc	0.0002553	Paxs	495.33	Joback Method
dvisc	0.0003500	Paxs	457.49	Joback Method
dvisc	0.0005080	Paxs	419.65	Joback Method
dvisc	0.0007937	Paxs	381.81	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C3535248&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3535248&amp;Units=SI</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>mvol:</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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