

# methyl 3,4,5-trimethylbenzoate

<b>Inchi:</b>	InChI=1S/C11H14O2/c1-7-5-10(11(12)13-4)6-8(2)9(7)3/h5-6H,1-4H3
<b>InchiKey:</b>	MMOVUCSZRKTFNP-UHFFFAOYSA-N
<b>Formula:</b>	C11H14O2
<b>SMILES:</b>	<chem>COC(=O)c1cc(C)c(C)c(C)c1</chem>
<b>Mol. weight [g/mol]:</b>	178.23

## Physical Properties

Property code	Value	Unit	Source
gf	-108.66	kJ/mol	Joback Method
hf	-313.05	kJ/mol	Joback Method
hfus	19.91	kJ/mol	Joback Method
hvap	53.50	kJ/mol	Joback Method
log10ws	-3.14		Crippen Method
logp	2.398		Crippen Method
mcvol	149.530	ml/mol	McGowan Method
pc	2651.56	kPa	Joback Method
rinsol	1671.00		NIST Webbook
tb	568.99	K	Joback Method
tc	781.39	K	Joback Method
tf	349.87	K	Joback Method
vc	0.568	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	345.39	J/molxK	568.99	Joback Method
cpg	406.88	J/molxK	745.99	Joback Method
cpg	395.89	J/molxK	710.59	Joback Method
cpg	384.25	J/molxK	675.19	Joback Method
cpg	371.96	J/molxK	639.79	Joback Method
cpg	359.01	J/molxK	604.39	Joback Method
cpg	417.21	J/molxK	781.39	Joback Method
dvisc	0.0001868	Paxs	568.99	Joback Method
dvisc	0.0002264	Paxs	532.47	Joback Method

dvisc	0.0002823	Paxs	495.95	Joback Method
dvisc	0.0003644	Paxs	459.43	Joback Method
dvisc	0.0004918	Paxs	422.91	Joback Method
dvisc	0.0007022	Paxs	386.39	Joback Method
dvisc	0.0010802	Paxs	349.87	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=R218801&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R218801&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>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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