

# 2-Propenoic acid, 3-(4-methoxyphenyl)-, methyl ester

<b>Other names:</b>	Cinnamic acid, p-methoxy-, methyl ester Methyl p-methoxycinnamate Methyl 4-methoxycinnamate Cinnamate, methyl p-methoxy- 4-Methoxycinnamic acid, methyl ester Methyl 3-(4-methoxyphenyl)-2-propenoate 4-Methoxymethyl cinnamate Methyl (2E)-3-(4-methoxyphenyl)-2-propenoate
<b>Inchi:</b>	InChI=1S/C11H12O3/c1-13-10-6-3-9(4-7-10)5-8-11(12)14-2/h3-8H,1-2H3/b8-5+
<b>InchiKey:</b>	VEZIKIAGFYZTCI-VMPITWQZSA-N
<b>Formula:</b>	C11H12O3
<b>SMILES:</b>	<chem>COC(=O)C=Cc1ccc(OC)cc1</chem>
<b>Mol. weight [g/mol]:</b>	192.21
<b>CAS:</b>	832-01-9

## Physical Properties

Property code	Value	Unit	Source
gf	-114.18	kJ/mol	Joback Method
hf	-305.11	kJ/mol	Joback Method
hfus	22.08	kJ/mol	Joback Method
hvap	54.54	kJ/mol	Joback Method
log10ws	-2.11		Crippen Method
logp	1.881		Crippen Method
mcvol	151.100	ml/mol	McGowan Method
pc	2838.39	kPa	Joback Method
rinpol	1692.00		NIST Webbook
rinpol	1668.00		NIST Webbook
rinpol	1665.00		NIST Webbook
rinpol	1694.60		NIST Webbook
tb	585.61	K	Joback Method
tc	802.77	K	Joback Method
tf	341.98	K	Joback Method
vc	0.566	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.81	J/molxK	585.61	Joback Method
cpg	364.16	J/molxK	621.80	Joback Method
cpg	376.74	J/molxK	658.00	Joback Method
cpg	388.57	J/molxK	694.19	Joback Method
cpg	399.68	J/molxK	730.38	Joback Method
cpg	410.06	J/molxK	766.58	Joback Method
cpg	419.74	J/molxK	802.77	Joback Method
dvisc	0.0012034	Paxs	341.98	Joback Method
dvisc	0.0006894	Paxs	382.59	Joback Method
dvisc	0.0004395	Paxs	423.19	Joback Method
dvisc	0.0003032	Paxs	463.80	Joback Method
dvisc	0.0002220	Paxs	504.40	Joback Method
dvisc	0.0001703	Paxs	545.00	Joback Method
dvisc	0.0001355	Paxs	585.61	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=C832019&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C832019&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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