

# Benzenepropanoic acid, 4-methoxy-, methyl ester

<b>Other names:</b>	Hydrocinnamic acid, p-methoxy-, methyl ester Methyl 3-(p-methoxyphenyl)-propionate Methyl 3-(4-methoxyphenyl)propanoate Methyl 3-(4-methoxyphenyl)-propionate Propanoic acid, 3-(4-methoxyphenyl), methyl ester
<b>Inchi:</b>	InChI=1S/C11H14O3/c1-13-10-6-3-9(4-7-10)5-8-11(12)14-2/h3-4,6-7H,5,8H2,1-2H3
<b>InchiKey:</b>	AKQLYAFBUYHFCK-UHFFFAOYSA-N
<b>Formula:</b>	C11H14O3
<b>SMILES:</b>	<chem>COC(=O)CCc1ccc(OC)cc1</chem>
<b>Mol. weight [g/mol]:</b>	194.23
<b>CAS:</b>	15823-04-8

## Physical Properties

Property code	Value	Unit	Source
gf	-194.40	kJ/mol	Joback Method
hf	-422.33	kJ/mol	Joback Method
hfus	21.87	kJ/mol	Joback Method
hvap	54.58	kJ/mol	Joback Method
log10ws	-2.09		Crippen Method
logp	1.801		Crippen Method
mcvol	155.400	ml/mol	McGowan Method
pc	2687.42	kPa	Joback Method
rinpol	1489.00		NIST Webbook
tb	581.45	K	Joback Method
tc	789.55	K	Joback Method
tf	347.06	K	Joback Method
vc	0.586	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	370.80	J/molxK	581.45	Joback Method
cpg	384.70	J/molxK	616.13	Joback Method
cpg	397.90	J/molxK	650.82	Joback Method

cpg	410.38	J/molxK	685.50	Joback Method
cpg	422.16	J/molxK	720.18	Joback Method
cpg	433.22	J/molxK	754.87	Joback Method
cpg	443.58	J/molxK	789.55	Joback Method
dvisc	0.0013141	Paxs	347.06	Joback Method
dvisc	0.0007734	Paxs	386.12	Joback Method
dvisc	0.0005017	Paxs	425.19	Joback Method
dvisc	0.0003501	Paxs	464.25	Joback Method
dvisc	0.0002583	Paxs	503.32	Joback Method
dvisc	0.0001991	Paxs	542.38	Joback Method
dvisc	0.0001589	Paxs	581.45	Joback Method

## Sources

<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=C15823048&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C15823048&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>

## 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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