

# 2-Propenoic acid, 3-(2-hydroxyphenyl)-, methyl ester

<b>Other names:</b>	Methyl o-coumarate Cinnamic acid, O-hydroxy-, methyl ester Methyl o-hydroxycinnamate Methyl ester of O-hydroxycinnamic acid Methyl 3-(2-hydroxyphenyl)-2-propenoate O-Hydroxycinnamic acid, methyl ester
<b>Inchi:</b>	InChI=1S/C10H10O3/c1-13-10(12)7-6-8-4-2-3-5-9(8)11/h2-7,11H,1H3/b7-6+
<b>InchiKey:</b>	YMXREWKKROWOSO-VOTSOKGWSA-N
<b>Formula:</b>	C10H10O3
<b>SMILES:</b>	<chem>COC(=O)C=Cc1ccccc1O</chem>
<b>Mol. weight [g/mol]:</b>	178.18
<b>CAS:</b>	20883-98-1

## Physical Properties

Property code	Value	Unit	Source
gf	-162.59	kJ/mol	Joback Method
hf	-318.09	kJ/mol	Joback Method
hfus	24.47	kJ/mol	Joback Method
hvap	62.26	kJ/mol	Joback Method
log10ws	-1.54		Crippen Method
logp	1.578		Crippen Method
mvol	137.010	ml/mol	McGowan Method
pc	3906.25	kPa	Joback Method
rinpol	1430.00		NIST Webbook
rinpol	1430.00		NIST Webbook
tb	615.95	K	Joback Method
tc	849.16	K	Joback Method
tf	407.68	K	Joback Method
vc	0.458	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	329.29	J/molxK	615.95	Joback Method

cpg	378.94	J/mol×K	810.29	Joback Method
cpg	370.29	J/mol×K	771.43	Joback Method
cpg	361.09	J/mol×K	732.56	Joback Method
cpg	351.25	J/mol×K	693.69	Joback Method
cpg	340.68	J/mol×K	654.82	Joback Method
cpg	387.11	J/mol×K	849.16	Joback Method
dvisc	0.0000267	Paxs	615.95	Joback Method
dvisc	0.0000399	Paxs	581.24	Joback Method
dvisc	0.0000628	Paxs	546.53	Joback Method
dvisc	0.0001050	Paxs	511.82	Joback Method
dvisc	0.0001891	Paxs	477.10	Joback Method
dvisc	0.0003738	Paxs	442.39	Joback Method
dvisc	0.0008298	Paxs	407.68	Joback Method

## Sources

<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=C20883981&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C20883981&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>

## 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

**vc:** Critical Volume

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