

# 2-Ethoxycinnamic acid

<b>Other names:</b>	o-Ethoxy cinnamic acid Propenoic acid, 3-(2-ethoxyphenyl)- 2-Propenoic acid, 3-(2-ethoxyphenyl)- Cinnamic acid, o-ethoxy-
<b>Inchi:</b>	InChI=1S/C11H12O3/c1-2-14-10-6-4-3-5-9(10)7-8-11(12)13/h3-8H,2H2,1H3,(H,12,13)/b
<b>InchiKey:</b>	UXTDCJJEJZCEBF-BQYQJAHWSA-N
<b>Formula:</b>	C11H12O3
<b>SMILES:</b>	CCOc1ccccc1C=CC(=O)O
<b>Mol. weight [g/mol]:</b>	192.21
<b>CAS:</b>	69038-81-9

## Physical Properties

Property code	Value	Unit	Source
chs	-5514.10	kJ/mol	NIST Webbook
gf	-146.00	kJ/mol	Joback Method
hf	-325.12	kJ/mol	Joback Method
hfus	24.98	kJ/mol	Joback Method
hvap	68.81	kJ/mol	Joback Method
log10ws	-2.35		Crippen Method
logp	2.183		Crippen Method
mcvol	151.100	ml/mol	McGowan Method
pc	3199.16	kPa	Joback Method
tb	655.37	K	Joback Method
tc	859.69	K	Joback Method
tf	380.57	K	Joback Method
vc	0.567	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	376.78	J/molxK	655.37	Joback Method
cpg	387.81	J/molxK	689.42	Joback Method
cpg	398.16	J/molxK	723.48	Joback Method
cpg	407.88	J/molxK	757.53	Joback Method

cpg	416.98	J/molxK	791.59	Joback Method
cpg	425.49	J/molxK	825.64	Joback Method
cpg	433.44	J/molxK	859.69	Joback Method
dvisc	0.0020128	Paxs	380.57	Joback Method
dvisc	0.0007726	Paxs	426.37	Joback Method
dvisc	0.0003571	Paxs	472.17	Joback Method
dvisc	0.0001892	Paxs	517.97	Joback Method
dvisc	0.0001111	Paxs	563.77	Joback Method
dvisc	0.0000707	Paxs	609.57	Joback Method
dvisc	0.0000479	Paxs	655.37	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=C69038819&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C69038819&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>chs:</b>	Standard solid enthalpy of combustion
<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>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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