

# ethyl 2-hydroxy-3-phenylpropanoate

<b>Other names:</b>	Propanoic acid, 2-hydroxy-3-phenyl, ethyl ester ethyl phenyllactate
<b>Inchi:</b>	InChI=1S/C11H14O3/c1-2-14-11(13)10(12)8-9-6-4-3-5-7-9/h3-7,10,12H,2,8H2,1H3
<b>InchiKey:</b>	HBOGUIFRIAXYNB-UHFFFAOYSA-N
<b>Formula:</b>	C11H14O3
<b>SMILES:</b>	CCOC(=O)C(O)Cc1ccccc1
<b>Mol. weight [g/mol]:</b>	194.23

## Physical Properties

Property code	Value	Unit	Source
gf	-219.03	kJ/mol	Joback Method
hf	-436.15	kJ/mol	Joback Method
hfus	21.64	kJ/mol	Joback Method
hvap	67.80	kJ/mol	Joback Method
log10ws	-1.77		Crippen Method
logp	1.153		Crippen Method
mcvol	155.400	ml/mol	McGowan Method
pc	3096.73	kPa	Joback Method
rinpol	1460.00		NIST Webbook
rinpol	1456.00		NIST Webbook
rinpol	1456.00		NIST Webbook
rinpol	1438.00		NIST Webbook
rinpol	1456.00		NIST Webbook
rinpol	1445.00		NIST Webbook
ripol	2249.00		NIST Webbook
ripol	2315.00		NIST Webbook
ripol	2273.00		NIST Webbook
ripol	2273.00		NIST Webbook
ripol	2249.00		NIST Webbook
tb	645.79	K	Joback Method
tc	845.38	K	Joback Method
tf	358.13	K	Joback Method
vc	0.581	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	400.54	J/molxK	645.79	Joback Method
cpg	453.87	J/molxK	812.11	Joback Method
cpg	444.56	J/molxK	778.85	Joback Method
cpg	434.60	J/molxK	745.58	Joback Method
cpg	423.95	J/molxK	712.32	Joback Method
cpg	412.60	J/molxK	679.05	Joback Method
cpg	462.54	J/molxK	845.38	Joback Method
dvisc	0.0000540	Paxs	645.79	Joback Method
dvisc	0.0000835	Paxs	597.85	Joback Method
dvisc	0.0001392	Paxs	549.90	Joback Method
dvisc	0.0002559	Paxs	501.96	Joback Method
dvisc	0.0005350	Paxs	454.02	Joback Method
dvisc	0.0013311	Paxs	406.07	Joback Method
dvisc	0.0042275	Paxs	358.13	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=R252574&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R252574&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>ripol:</b>	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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