

# Phthalic acid, allyl ethyl ester

<b>Other names:</b>	Ethylallylphthalate
<b>Inchi:</b>	InChI=1S/C13H14O4/c1-3-9-17-13(15)11-8-6-5-7-10(11)12(14)16-4-2/h3,5-8H,1,4,9H2,2
<b>InchiKey:</b>	UPBGNLFFUITRLL-UHFFFAOYSA-N
<b>Formula:</b>	C13H14O4
<b>SMILES:</b>	<chem>C=CCOC(=O)c1ccccc1C(=O)OCC</chem>
<b>Mol. weight [g/mol]:</b>	234.25
<b>CAS:</b>	33672-94-5

## Physical Properties

Property code	Value	Unit	Source
gf	-218.64	kJ/mol	Joback Method
hf	-450.76	kJ/mol	Joback Method
hfus	27.37	kJ/mol	Joback Method
hvap	65.11	kJ/mol	Joback Method
log10ws	-3.07		Crippen Method
logp	2.206		Crippen Method
mcvol	180.850	ml/mol	McGowan Method
pc	2460.47	kPa	Joback Method
rinpol	1776.00		NIST Webbook
tb	677.76	K	Joback Method
tc	890.16	K	Joback Method
tf	417.77	K	Joback Method
vc	0.684	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	464.54	J/molxK	677.76	Joback Method
cpg	477.83	J/molxK	713.16	Joback Method
cpg	490.27	J/molxK	748.56	Joback Method
cpg	501.86	J/molxK	783.96	Joback Method
cpg	512.63	J/molxK	819.36	Joback Method
cpg	522.58	J/molxK	854.76	Joback Method
cpg	531.71	J/molxK	890.16	Joback Method

dvisc	0.0010467	Paxs	417.77	Joback Method
dvisc	0.0006399	Paxs	461.10	Joback Method
dvisc	0.0004256	Paxs	504.43	Joback Method
dvisc	0.0003020	Paxs	547.76	Joback Method
dvisc	0.0002253	Paxs	591.10	Joback Method
dvisc	0.0001750	Paxs	634.43	Joback Method
dvisc	0.0001404	Paxs	677.76	Joback Method

## Sources

<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>
<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=C33672945&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C33672945&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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