

# 4-Ethylbenzoic acid, 3-chloroprop-2-enyl ester

<b>Inchi:</b>	InChI=1S/C12H13ClO2/c1-2-10-4-6-11(7-5-10)12(14)15-9-3-8-13/h3-8H,2,9H2,1H3/b8-3
<b>InchiKey:</b>	SJAFWAMUNZHSD-FPYGCLRLSA-N
<b>Formula:</b>	C12H13ClO2
<b>SMILES:</b>	CCc1ccc(C(=O)OCC=CCl)cc1
<b>Mol. weight [g/mol]:</b>	224.68

## Physical Properties

Property code	Value	Unit	Source
gf	-12.69	kJ/mol	Joback Method
hf	-209.27	kJ/mol	Joback Method
hfus	27.67	kJ/mol	Joback Method
hvap	58.74	kJ/mol	Joback Method
log10ws	-3.86		Crippen Method
logp	3.158		Crippen Method
mcvol	171.560	ml/mol	McGowan Method
pc	2517.59	kPa	Joback Method
rinsol	1733.10		NIST Webbook
tb	623.50	K	Joback Method
tc	843.18	K	Joback Method
tf	360.94	K	Joback Method
vc	0.652	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	400.23	J/molxK	623.50	Joback Method
cpg	413.65	J/molxK	660.11	Joback Method
cpg	426.21	J/molxK	696.73	Joback Method
cpg	437.95	J/molxK	733.34	Joback Method
cpg	448.90	J/molxK	769.95	Joback Method
cpg	459.11	J/molxK	806.56	Joback Method
cpg	468.60	J/molxK	843.18	Joback Method
dvisc	0.0014273	Paxs	360.94	Joback Method
dvisc	0.0007986	Paxs	404.70	Joback Method

dvisc	0.0005004	Paxs	448.46	Joback Method
dvisc	0.0003408	Paxs	492.22	Joback Method
dvisc	0.0002471	Paxs	535.98	Joback Method
dvisc	0.0001881	Paxs	579.74	Joback Method
dvisc	0.0001487	Paxs	623.50	Joback Method

## Sources

<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>
<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=U292550&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U292550&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

Latest version available from:

<https://www.chemeo.com/cid/29-754-3/4-Ethylbenzoic-acid-3-chloroprop-2-enyl-ester.pdf>

Generated by Cheméo on 2024-04-23 15:58:16.270190783 +0000 UTC m=+16177145.190768095.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.