

# Ethyl-2,5-dichlorobenzoate

<b>Other names:</b>	2,5-Dichlorobenzoic acid ethyl ester Benzoic acid, 2,5-dichloro-, ethyl ester
<b>Inchi:</b>	InChI=1S/C9H8Cl2O2/c1-2-13-9(12)7-5-6(10)3-4-8(7)11/h3-5H,2H2,1H3
<b>InchiKey:</b>	JSZYWIKNIZKJAN-UHFFFAOYSA-N
<b>Formula:</b>	C9H8Cl2O2
<b>SMILES:</b>	CCOC(=O)c1cc(Cl)ccc1Cl
<b>Mol. weight [g/mol]:</b>	219.06
<b>CAS:</b>	35112-27-7

## Physical Properties

Property code	Value	Unit	Source
gf	-139.73	kJ/mol	Joback Method
hf	-291.78	kJ/mol	Joback Method
hfus	23.51	kJ/mol	Joback Method
hvap	57.15	kJ/mol	Joback Method
log10ws	-3.50		Crippen Method
logp	3.170		Crippen Method
mcvol	145.830	ml/mol	McGowan Method
pc	3055.79	kPa	Joback Method
tb	593.11	K	Joback Method
tc	820.29	K	Joback Method
tf	374.65	K	Joback Method
vc	0.553	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	302.99	J/molxK	593.11	Joback Method
cpg	313.48	J/molxK	630.97	Joback Method
cpg	323.31	J/molxK	668.84	Joback Method
cpg	332.51	J/molxK	706.70	Joback Method
cpg	341.08	J/molxK	744.56	Joback Method
cpg	349.03	J/molxK	782.43	Joback Method
cpg	356.37	J/molxK	820.29	Joback Method

dvisc	0.0012799	Paxs	374.65	Joback Method
dvisc	0.0008364	Paxs	411.06	Joback Method
dvisc	0.0005857	Paxs	447.47	Joback Method
dvisc	0.0004328	Paxs	483.88	Joback Method
dvisc	0.0003336	Paxs	520.29	Joback Method
dvisc	0.0002661	Paxs	556.70	Joback Method
dvisc	0.0002182	Paxs	593.11	Joback Method

## Sources

<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=C35112277&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C35112277&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>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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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