

# 2,2-Dichloroethyl benzoate

<b>Other names:</b>	Benzoic acid, 2,2-dichloroethyl ester Ethanol, 2,2-dichloro, benzoate
<b>Inchi:</b>	InChI=1S/C9H8Cl2O2/c10-8(11)6-13-9(12)7-4-2-1-3-5-7/h1-5,8H,6H2
<b>InchiKey:</b>	PQOOXAVSUMDZHX-UHFFFAOYSA-N
<b>Formula:</b>	C9H8Cl2O2
<b>SMILES:</b>	O=C(OCC(Cl)Cl)c1ccccc1
<b>Mol. weight [g/mol]:</b>	219.06

## Physical Properties

Property code	Value	Unit	Source
gf	-122.91	kJ/mol	Joback Method
hf	-274.12	kJ/mol	Joback Method
hfus	20.77	kJ/mol	Joback Method
hvap	55.44	kJ/mol	Joback Method
log10ws	-3.05		Crippen Method
logp	2.647		Crippen Method
mcvol	145.830	ml/mol	McGowan Method
pc	3188.33	kPa	Joback Method
rinpol	1462.00		NIST Webbook
rinpol	1485.00		NIST Webbook
rinpol	1470.00		NIST Webbook
rinpol	1456.00		NIST Webbook
rinpol	1462.00		NIST Webbook
rinpol	1482.00		NIST Webbook
rinpol	1459.00		NIST Webbook
rinpol	1453.00		NIST Webbook
rinpol	1465.00		NIST Webbook
rinpol	1472.00		NIST Webbook
ripol	2192.00		NIST Webbook
ripol	2192.00		NIST Webbook
ripol	2231.00		NIST Webbook
ripol	2226.00		NIST Webbook
ripol	2267.00		NIST Webbook
tb	582.71	K	Joback Method
tc	812.83	K	Joback Method
tf	334.61	K	Joback Method
vc	0.547	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	305.63	J/molxK	582.71	Joback Method
cpg	316.93	J/molxK	621.06	Joback Method
cpg	327.44	J/molxK	659.42	Joback Method
cpg	337.17	J/molxK	697.77	Joback Method
cpg	346.15	J/molxK	736.13	Joback Method
cpg	354.41	J/molxK	774.48	Joback Method
cpg	361.97	J/molxK	812.83	Joback Method
dvisc	0.0025069	Paxs	334.61	Joback Method
dvisc	0.0013249	Paxs	375.96	Joback Method
dvisc	0.0007946	Paxs	417.31	Joback Method
dvisc	0.0005225	Paxs	458.66	Joback Method
dvisc	0.0003683	Paxs	500.01	Joback Method
dvisc	0.0002738	Paxs	541.36	Joback Method
dvisc	0.0002123	Paxs	582.71	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=R31220&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R31220&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>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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