

Benzoic acid, 2,4-dichloro-, ethyl ester

Other names:	Ethyl 2,4-dichlorobenzoate
Inchi:	InChI=1S/C9H8Cl2O2/c1-2-13-9(12)7-4-3-6(10)5-8(7)11/h3-5H,2H2,1H3
InchiKey:	ZBBGAUHWZKKQQ-UHFFFAOYSA-N
Formula:	C9H8Cl2O2
SMILES:	CCOC(=O)c1ccc(Cl)cc1Cl
Mol. weight [g/mol]:	219.06
CAS:	56882-52-1

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/mol×K	593.11	Joback Method
cpg	313.48	J/mol×K	630.97	Joback Method
cpg	323.31	J/mol×K	668.84	Joback Method
cpg	332.51	J/mol×K	706.70	Joback Method
cpg	341.08	J/mol×K	744.56	Joback Method
cpg	349.03	J/mol×K	782.43	Joback Method
cpg	356.37	J/mol×K	820.29	Joback Method
dvisc	0.0012799	Pa×s	374.65	Joback Method

dvisc	0.0008364	Pa×s	411.06	Joback Method
dvisc	0.0005857	Pa×s	447.47	Joback Method
dvisc	0.0004328	Pa×s	483.88	Joback Method
dvisc	0.0003336	Pa×s	520.29	Joback Method
dvisc	0.0002661	Pa×s	556.70	Joback Method
dvisc	0.0002182	Pa×s	593.11	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C56882521&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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