

2-(2-Chlorophenoxy)ethanol

Other names:	2-(2'-Chlorophenoxy)ethanol Ethanol, 2-(2-chlorophenoxy)-
Inchi:	InChI=1S/C8H9ClO2/c9-7-3-1-2-4-8(7)11-6-5-10/h1-4,10H,5-6H2
InchiKey:	FDQGMCQSIVZGHW-UHFFFAOYSA-N
Formula:	C8H9ClO2
SMILES:	OCCOc1ccccc1Cl
Mol. weight [g/mol]:	172.61
CAS:	15480-00-9

Physical Properties

Property code	Value	Unit	Source
gf	-134.49	kJ/mol	Joback Method
hf	-283.58	kJ/mol	Joback Method
hfus	19.60	kJ/mol	Joback Method
h vap	59.81	kJ/mol	Joback Method
log10ws	-1.96		Crippen Method
logp	1.711		Crippen Method
m cvol	123.800	ml/mol	McGowan Method
pc	3754.57	kPa	Joback Method
tb	566.13	K	Joback Method
tc	767.80	K	Joback Method
tf	331.83	K	Joback Method
vc	0.462	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	268.81	J/mol×K	566.13	Joback Method
cpg	278.39	J/mol×K	599.74	Joback Method
cpg	287.45	J/mol×K	633.35	Joback Method
cpg	296.01	J/mol×K	666.97	Joback Method
cpg	304.07	J/mol×K	700.58	Joback Method
cpg	311.65	J/mol×K	734.19	Joback Method
cpg	318.76	J/mol×K	767.80	Joback Method

dvisc	0.0042039	Paxs	331.83	Joback Method
dvisc	0.0015927	Paxs	370.88	Joback Method
dvisc	0.0007260	Paxs	409.93	Joback Method
dvisc	0.0003794	Paxs	448.98	Joback Method
dvisc	0.0002199	Paxs	488.03	Joback Method
dvisc	0.0001382	Paxs	527.08	Joback Method
dvisc	0.0000926	Paxs	566.13	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=C15480009&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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
mcvol:	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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