Ethanol, 2-(4-chlorophenoxy)-

Other names:	Ethanol, 2-(p-chlorophenoxy)-
	p-Chlorophenyl glycol ether
	p-Chlorophenyl monoglycol ether
	Chloro-p-phenoxetol
	Chlorophetanol
	Fungisan
	2-(p-Chlorophenoxy)ethanol
	2-(4-Chlorophenoxy)ethanol
	2-(4'-Chlorophenoxy)ethanol
	Ethylene glycol mono(p-chlorophenyl) ether
	p-Chlorfenylmonoglykolether
	p-Chlorophenyl 2-hydroxyethyl ether
	2-(4'-Chlorfenoxy)ethanol
	4-(2-Hydroxyethoxy)chlorobenzene
	NSC 8133
Inchi:	InChI=1S/C8H9ClO2/c9-7-1-3-8(4-2-7)11-6-5-10/h1-4,10H,5-6H2
InchiKey:	GEGSSUSEWOHAFE-UHFFFAOYSA-N
Formula:	C8H9ClO2
SMILES:	OCCOc1ccc(Cl)cc1
Mol. weight [g/mol]:	172.61
CAS:	1892-43-9

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
hvap	59.81	kJ/mol	Joback Method
log10ws	-1.96		Crippen Method
logp	1.711		Crippen Method
mcvol	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	m3/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	Pa×s	331.83	Joback Method
dvisc	0.0015927	Pa×s	370.88	Joback Method
dvisc	0.0007260	Pa×s	409.93	Joback Method
dvisc	0.0003794	Pa×s	448.98	Joback Method
dvisc	0.0002199	Pa×s	488.03	Joback Method
dvisc	0.0001382	Pa×s	527.08	Joback Method
dvisc	0.0000926	Pa×s	566.13	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C1892439&Units=SI

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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