Benzene, 1-phenoxy-4-(2-chloroethoxy)-

Inchi: InChI=1S/C14H13ClO2/c15-10-11-16-12-6-8-14(9-7-12)17-13-4-2-1-3-5-13/h1-9H,10-11
InchiKey: ACDJKCYEQDTWGR-UHFFFAOYSA-N
Formula: C14H13ClO2
SMILES: ClCCOc1ccc(Oc2ccccc2)cc1
Mol. weight [g/mol]: 248.71
CAS: 61435-02-7

Physical Properties

Property code	Value	Unit	Source
gf	60.26	kJ/mol	Joback Method
hf	-150.88	kJ/mol	Joback Method
hfus	26.28	kJ/mol	Joback Method
hvap	61.18	kJ/mol	Joback Method
log10ws	-3.80		Crippen Method
logp	4.096		Crippen Method
mcvol	184.580	ml/mol	McGowan Method
pc	2535.37	kPa	Joback Method
tb	660.33	K	Joback Method
tc	896.94	K	Joback Method
tf	387.28	K	Joback Method
vc	0.689	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	450.34	J/mol×K	660.33	Joback Method
cpg	465.57	J/mol×K	699.76	Joback Method
cpg	479.67	J/mol×K	739.20	Joback Method
cpg	492.68	J/mol×K	778.63	Joback Method
cpg	504.63	J/mol×K	818.07	Joback Method
cpg	515.53	J/mol×K	857.50	Joback Method
cpg	525.44	J/mol×K	896.94	Joback Method
dvisc	0.0009749	Pa×s	387.28	Joback Method
dvisc	0.0005573	Pa×s	432.79	Joback Method

dvisc	0.0003543	Pa×s	478.30	Joback Method
dvisc	0.0002437	Pa×s	523.80	Joback Method
dvisc	0.0001780	Pa×s	569.31	Joback Method
dvisc	0.0001362	Pa×s	614.82	Joback Method
dvisc	0.0001081	Pa×s	660.33	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=C61435027&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
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume