2-(2-Chloroethoxy)-1,1'-biphenyl

Inchi: InChI=1S/C14H13ClO/c15-10-11-16-14-9-5-4-8-13(14)12-6-2-1-3-7-12/h1-9H,10-11H2
InchiKey: CGVSPABEGAOUOK-UHFFFAOYSA-N
Formula: C14H13ClO
SMILES: ClCCOc1ccccc1-c1ccccc1
Mol. weight [g/mol]: 232.71
CAS: 607-04-5

Physical Properties

Property code	Value	Unit	Source
gf	165.26	kJ/mol	Joback Method
hf	-18.66	kJ/mol	Joback Method
hfus	25.09	kJ/mol	Joback Method
hvap	58.77	kJ/mol	Joback Method
log10ws	-4.77		Crippen Method
logp	3.971		Crippen Method
mcvol	178.710	ml/mol	McGowan Method
pc	2579.34	kPa	Joback Method
tb	637.91	K	Joback Method
tc	878.20	K	Joback Method
tf	365.05	K	Joback Method
vc	0.670	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	425.04	J/mol×K	637.91	Joback Method
cpg	492.07	J/mol×K	838.15	Joback Method
cpg	480.81	J/mol×K	798.10	Joback Method
cpg	468.52	J/mol×K	758.05	Joback Method
cpg	455.17	J/mol×K	718.01	Joback Method
cpg	440.69	J/mol×K	677.96	Joback Method
cpg	502.37	J/mol×K	878.20	Joback Method
dvisc	0.0001371	Pa×s	637.91	Joback Method
dvisc	0.0001731	Pa×s	592.43	Joback Method

dvisc	0.0002272	Pa×s	546.96	Joback Method
dvisc	0.0003133	Pa×s	501.48	Joback Method
dvisc	0.0004606	Pa×s	456.00	Joback Method
dvisc	0.0007375	Pa×s	410.53	Joback Method
dvisc	0.0013278	Pa×s	365.05	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C607045&Units=SI
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

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