2-[2-(2,4,5-Trichlorophenoxy)ethoxy]ethanol

Inchi: InChI=1S/C10H11Cl3O3/c11-7-5-9(13)10(6-8(7)12)16-4-3-15-2-1-14/h5-6,14H,1-4H2
InchiKey: YLGIDQAAEOZPLC-UHFFFAOYSA-N
Formula: C10H11Cl3O3
SMILES: OCCOCCOc1cc(Cl)c(Cl)cc1Cl
Mol. weight [g/mol]: 285.55
CAS: 90920-28-8

Physical Properties

Property code	Value	Unit	Source
gf	-265.77	kJ/mol	Joback Method
hf	-511.50	kJ/mol	Joback Method
hfus	33.58	kJ/mol	Joback Method
hvap	76.77	kJ/mol	Joback Method
log10ws	-3.25		Crippen Method
logp	3.035		Crippen Method
mcvol	182.330	ml/mol	McGowan Method
pc	2643.39	kPa	Joback Method
tb	719.13	K	Joback Method
tc	922.99	K	Joback Method
tf	461.48	K	Joback Method
vc	0.690	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	427.79	J/mol×K	719.13	Joback Method
cpg	437.22	J/mol×K	753.11	Joback Method
cpg	446.07	J/mol×K	787.08	Joback Method
cpg	454.33	J/mol×K	821.06	Joback Method
cpg	462.01	J/mol×K	855.04	Joback Method
cpg	469.10	J/mol×K	889.01	Joback Method
cpg	475.59	J/mol×K	922.99	Joback Method
dvisc	0.0005265	Pa×s	461.48	Joback Method
dvisc	0.0002706	Pa×s	504.42	Joback Method

dvisc	0.0001543	Pa×s	547.36	Joback Method
dvisc	0.0000955	Pa×s	590.31	Joback Method
dvisc	0.0000631	Pa×s	633.25	Joback Method
dvisc	0.0000439	Pa×s	676.19	Joback Method
dvisc	0.0000319	Pa×s	719.13	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=C90920288&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