Phthalic acid, 2-(4-chlorophenoxy)ethyl propyl ester

Inchi: InChI=1S/C19H19ClO5/c1-2-11-24-18(21)14-7-3-4-8-15(14)19(22)25-13-12-23-17-10-6-5

InchiKey: OUQNKOGFHJMGBR-UHFFFAOYSA-N

Formula: C19H19ClO5

SMILES: CCCOC(=O)c1ccccc1C(=O)OCCOc1ccccc1Cl

Mol. weight [g/mol]: 362.80

Physical Properties

Property code	Value	Unit	Source
gf	-270.11	kJ/mol	Joback Method
hf	-622.93	kJ/mol	Joback Method
hfus	43.23	kJ/mol	Joback Method
hvap	88.87	kJ/mol	Joback Method
log10ws	-5.25		Crippen Method
logp	4.143		Crippen Method
mcvol	264.040	ml/mol	McGowan Method
pc	1777.34	kPa	Joback Method
rinpol	2686.00		NIST Webbook
tb	909.87	K	Joback Method
tc	1138.63	K	Joback Method
tf	578.24	K	Joback Method
vc	0.999	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	772.40	J/mol×K	909.87	Joback Method
cpg	784.25	J/mol×K	948.00	Joback Method
cpg	794.75	J/mol×K	986.12	Joback Method
cpg	803.90	J/mol×K	1024.25	Joback Method
cpg	811.73	J/mol×K	1062.38	Joback Method
cpg	818.24	J/mol×K	1100.50	Joback Method
cpg	823.44	J/mol×K	1138.63	Joback Method
dvisc	0.0002997	Pa×s	578.24	Joback Method
dvisc	0.0001879	Pa×s	633.51	Joback Method

dvisc	0.0001270	Pa×s	688.78	Joback Method
dvisc	0.0000910	Pa×s	744.06	Joback Method
dvisc	0.0000682	Pa×s	799.33	Joback Method
dvisc	0.0000531	Pa×s	854.60	Joback Method
dvisc	0.0000426	Pa×s	909.87	Joback Method

Sources

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=U377903&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume