Isophthalic acid, 2-chloroethyl ethyl ester

Inchi: InChI=1S/C12H13ClO4/c1-2-16-11(14)9-4-3-5-10(8-9)12(15)17-7-6-13/h3-5,8H,2,6-7H2,
InchiKey: JOCXGHTXBALZLR-UHFFFAOYSA-N
Formula: C12H13ClO4
SMILES: CCOC(=O)c1cccc(C(=O)OCCCl)c1
Mol. weight [g/mol]: 256.68

Physical Properties

Property code	Value	Unit	Source
gf	-326.83	kJ/mol	Joback Method
hf	-571.29	kJ/mol	Joback Method
hfus	30.26	kJ/mol	Joback Method
hvap	67.94	kJ/mol	Joback Method
log10ws	-2.95		Crippen Method
logp	2.259		Crippen Method
mcvol	183.300	ml/mol	McGowan Method
pc	2502.50	kPa	Joback Method
rinpol	1942.00		NIST Webbook
rinpol	1942.00		NIST Webbook
tb	695.63	K	Joback Method
tc	910.73	K	Joback Method
tf	438.18	K	Joback Method
vc	0.697	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	461.40	J/mol×K	695.63	Joback Method
cpg	473.77	J/mol×K	731.48	Joback Method
cpg	485.31	J/mol×K	767.33	Joback Method
cpg	496.02	J/mol×K	803.18	Joback Method
cpg	505.89	J/mol×K	839.03	Joback Method
cpg	514.95	J/mol×K	874.88	Joback Method
cpg	523.19	J/mol×K	910.73	Joback Method
dvisc	0.0009861	Pa×s	438.18	Joback Method

dvisc	0.0006136	Pa×s	481.09	Joback Method
dvisc	0.0004127	Pa×s	524.00	Joback Method
dvisc	0.0002947	Pa×s	566.90	Joback Method
dvisc	0.0002207	Pa×s	609.81	Joback Method
dvisc	0.0001717	Pa×s	652.72	Joback Method
dvisc	0.0001377	Pa×s	695.63	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=U345868&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