Diglycolic acid, 2,6-dichlorophenyl nonyl ester

Inchi: InChI=1S/C19H26Cl2O5/c1-2-3-4-5-6-7-8-12-25-17(22)13-24-14-18(23)26-19-15(20)10-9
InchiKey: UDFTVFWARDPCOY-UHFFFAOYSA-N
Formula: C19H26Cl2O5
SMILES: CCCCCCCCCOC(=O)COCC(=O)Oc1c(Cl)cccc1Cl
Mol. weight [g/mol]: 405.31

Physical Properties

Property code	Value	Unit	Source
gf	-394.45	kJ/mol	Joback Method
hf	-875.20	kJ/mol	Joback Method
hfus	53.38	kJ/mol	Joback Method
hvap	90.98	kJ/mol	Joback Method
log10ws	-5.71		Crippen Method
logp	5.209		Crippen Method
mcvol	300.040	ml/mol	McGowan Method
pc	1331.98	kPa	Joback Method
rinpol	3358.00		NIST Webbook
rinpol	3358.00		NIST Webbook
tb	920.62	K	Joback Method
tc	1132.87	K	Joback Method
tf	581.74	K	Joback Method
vc	1.155	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	897.85	J/mol×K	920.62	Joback Method
cpg	910.74	J/mol×K	955.99	Joback Method
cpg	922.38	J/mol×K	991.37	Joback Method
cpg	932.77	J/mol×K	1026.74	Joback Method
cpg	941.91	J/mol×K	1062.12	Joback Method
cpg	949.82	J/mol×K	1097.49	Joback Method
cpg	956.49	J/mol×K	1132.87	Joback Method
dvisc	0.0002727	Pa×s	581.74	Joback Method

dvisc	0.0001668	Pa×s	638.22	Joback Method
dvisc	0.0001105	Pa×s	694.70	Joback Method
dvisc	0.0000779	Pa×s	751.18	Joback Method
dvisc	0.0000577	Pa×s	807.66	Joback Method
dvisc	0.0000444	Pa×s	864.14	Joback Method
dvisc	0.0000353	Pa×s	920.62	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=U382304&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