Glutaric acid, dec-2-yl 2,2-dichloroethyl ester

Inchi: InChI=1S/C17H30Cl2O4/c1-3-4-5-6-7-8-10-14(2)23-17(21)12-9-11-16(20)22-13-15(18)19
InchiKey: RQWZOISUKFMWNO-UHFFFAOYSA-N
Formula: C17H30Cl2O4
SMILES: CCCCCCCCC(C)OC(=O)CCCC(=O)OCC(Cl)Cl
Mol. weight [g/mol]: 369.32

Physical Properties

Property code	Value	Unit	Source
gf	-404.32	kJ/mol	Joback Method
hf	-925.85	kJ/mol	Joback Method
hfus	46.71	kJ/mol	Joback Method
hvap	79.74	kJ/mol	Joback Method
log10ws	-5.69		Crippen Method
logp	5.186		Crippen Method
mcvol	289.750	ml/mol	McGowan Method
pc	1261.06	kPa	Joback Method
rinpol	2271.00		NIST Webbook
rinpol	2271.00		NIST Webbook
tb	814.92	K	Joback Method
tc	1006.18	K	Joback Method
tf	455.51	K	Joback Method
vc	1.121	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	852.95	J/mol×K	814.92	Joback Method
cpg	868.37	J/mol×K	846.80	Joback Method
cpg	882.81	J/mol×K	878.67	Joback Method
cpg	896.28	J/mol×K	910.55	Joback Method
cpg	908.79	J/mol×K	942.42	Joback Method
cpg	920.37	J/mol×K	974.30	Joback Method
cpg	931.02	J/mol×K	1006.18	Joback Method
dvisc	0.0009954	Pa×s	455.51	Joback Method

dvisc	0.0004552	Pa×s	515.41	Joback Method
dvisc	0.0002451	Pa×s	575.31	Joback Method
dvisc	0.0001483	Pa×s	635.21	Joback Method
dvisc	0.0000978	Pa×s	695.12	Joback Method
dvisc	0.0000689	Pa×s	755.02	Joback Method
dvisc	0.0000511	Pa×s	814.92	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U393541&Units=SI

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