Glutaric acid, dodec-2-en-1-yl 2,3-dichlorophenyl ester

Inchi: InChI=1S/C23H32Cl2O4/c1-2-3-4-5-6-7-8-9-10-11-18-28-21(26)16-13-17-22(27)29-20-15

InchiKey: LHLPXHURRXKTRC-ZHACJKMWSA-N

Formula: C23H32Cl2O4

SMILES: CCCCCCCCCC=CCOC(=O)CCCC(=O)Oc1cccc(Cl)c1Cl

Mol. weight [g/mol]: 443.40

Physical Properties

Property code	Value	Unit	Source
gf	-175.55	kJ/mol	Joback Method
hf	-708.32	kJ/mol	Joback Method
hfus	62.76	kJ/mol	Joback Method
hvap	97.43	kJ/mol	Joback Method
log10ws	-8.15		Crippen Method
logp	7.309		Crippen Method
mcvol	346.230	ml/mol	McGowan Method
pc	1071.46	kPa	Joback Method
rinpol	3153.00		NIST Webbook
rinpol	3153.00		NIST Webbook
tb	993.88	K	Joback Method
tc	1217.25	K	Joback Method
tf	599.51	K	Joback Method
vc	1.341	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1079.91	J/mol×K	993.88	Joback Method
cpg	1138.66	J/mol×K	1180.03	Joback Method
cpg	1129.16	J/mol×K	1142.80	Joback Method
cpg	1118.59	J/mol×K	1105.57	Joback Method
cpg	1106.89	J/mol×K	1068.34	Joback Method
cpg	1094.02	J/mol×K	1031.11	Joback Method
cpg	1147.14	J/mol×K	1217.25	Joback Method
dvisc	0.0000229	Pa×s	993.88	Joback Method

dvisc	0.0000293	Pa×s	928.15	Joback Method
dvisc	0.0000389	Pa×s	862.42	Joback Method
dvisc	0.0000542	Pa×s	796.69	Joback Method
dvisc	0.0000801	Pa×s	730.97	Joback Method
dvisc	0.0001280	Pa×s	665.24	Joback Method
dvisc	0.0002264	Pa×s	599.51	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U391994&Units=SI
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

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