Glutaric acid, 2,4-dichloronaphthyl hexyl ester

Inchi: InChI=1S/C21H24Cl2O4/c1-2-3-4-7-13-26-19(24)11-8-12-20(25)27-21-16-10-6-5-9-15(16
InchiKey: NDORMXGKKWXWQL-UHFFFAOYSA-N
Formula: C21H24Cl2O4
SMILES: CCCCCCOC(=O)CCCC(=O)Oc1c(Cl)cc(Cl)c2ccccc12
Mol. weight [g/mol]: 411.32

Physical Properties

Property code	Value	Unit	Source
gf	-175.59	kJ/mol	Joback Method
hf	-604.66	kJ/mol	Joback Method
hfus	54.01	kJ/mol	Joback Method
hvap	95.32	kJ/mol	Joback Method
log10ws	-7.59		Crippen Method
logp	6.346		Crippen Method
mcvol	302.890	ml/mol	McGowan Method
pc	1387.11	kPa	Joback Method
rinpol	3122.00		NIST Webbook
rinpol	3122.00		NIST Webbook
tb	967.92	K	Joback Method
tc	1193.03	K	Joback Method
tf	627.27	K	Joback Method
vc	1.171	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	905.28	J/mol×K	967.92	Joback Method
cpg	956.67	J/mol×K	1155.51	Joback Method
cpg	948.34	J/mol×K	1117.99	Joback Method
cpg	939.08	J/mol×K	1080.47	Joback Method
cpg	928.86	J/mol×K	1042.96	Joback Method
cpg	917.61	J/mol×K	1005.44	Joback Method
cpg	964.13	J/mol×K	1193.03	Joback Method
dvisc	0.0000751	Pa×s	967.92	Joback Method

dvisc	0.0000908	Pa×s	911.14	Joback Method
dvisc	0.0001126	Pa×s	854.37	Joback Method
dvisc	0.0001439	Pa×s	797.60	Joback Method
dvisc	0.0001911	Pa×s	740.82	Joback Method
dvisc	0.0002659	Pa×s	684.04	Joback Method
dvisc	0.0003928	Pa×s	627.27	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=U358926&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