Glutaric acid, 2,3-dichlorophenyl 2-ethylhexyl ester

Inchi: InChI=1S/C19H26Cl2O4/c1-3-5-8-14(4-2)13-24-17(22)11-7-12-18(23)25-16-10-6-9-15(20
InchiKey: MUSHGSGCOCOQPK-UHFFFAOYSA-N
Formula: C19H26Cl2O4
SMILES: CCCCC(CC)COC(=O)CCCC(=O)Oc1cccc(Cl)c1Cl
Mol. weight [g/mol]: 389.31

Physical Properties

Property code	Value	Unit	Source
gf	-291.89	kJ/mol	Joback Method
hf	-748.26	kJ/mol	Joback Method
hfus	48.67	kJ/mol	Joback Method
hvap	88.18	kJ/mol	Joback Method
log10ws	-6.38		Crippen Method
logp	5.829		Crippen Method
mcvol	294.170	ml/mol	McGowan Method
pc	1356.63	kPa	Joback Method
rinpol	2664.00		NIST Webbook
rinpol	2664.00		NIST Webbook
tb	897.76	K	Joback Method
tc	1109.78	K	Joback Method
tf	544.51	K	Joback Method
vc	1.131	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	870.96	J/mol×K	897.76	Joback Method
cpg	884.54	J/mol×K	933.10	Joback Method
cpg	896.95	J/mol×K	968.43	Joback Method
cpg	908.22	J/mol×K	1003.77	Joback Method
cpg	918.36	J/mol×K	1039.10	Joback Method
cpg	927.40	J/mol×K	1074.44	Joback Method
cpg	935.37	J/mol×K	1109.78	Joback Method
dvisc	0.0004221	Pa×s	544.51	Joback Method

dvisc	0.0002401	Pa×s	603.38	Joback Method
dvisc	0.0001510	Pa×s	662.26	Joback Method
dvisc	0.0001025	Pa×s	721.13	Joback Method
dvisc	0.0000737	Pa×s	780.01	Joback Method
dvisc	0.0000555	Pa×s	838.88	Joback Method
dvisc	0.0000434	Pa×s	897.76	Joback Method

Sources

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=U391474&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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