Glutaric acid, 2-ethylhexyl 4-chloro-2-methoxyphenyl ester

Inchi: InChI=1S/C20H29ClO5/c1-4-6-8-15(5-2)14-25-19(22)9-7-10-20(23)26-17-12-11-16(21)13

InchiKey: CSAKZXDXTSGMIF-UHFFFAOYSA-N

Formula: C20H29ClO5

SMILES: CCCCC(CC)COC(=O)CCCC(=O)Oc1ccc(Cl)cc1OC

Mol. weight [g/mol]: 384.89

Physical Properties

Property code	Value	Unit	Source
gf	-376.54	kJ/mol	Joback Method
hf	-885.38	kJ/mol	Joback Method
hfus	48.25	kJ/mol	Joback Method
hvap	88.43	kJ/mol	Joback Method
log10ws	-5.82		Crippen Method
logp	5.184		Crippen Method
mcvol	301.890	ml/mol	McGowan Method
pc	1283.75	kPa	Joback Method
rinpol	2666.00		NIST Webbook
rinpol	2666.00		NIST Webbook
tb	905.63	K	Joback Method
tc	1115.10	K	Joback Method
tf	548.09	K	Joback Method
vc	1.157	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	933.05	J/mol×K	905.63	Joback Method
cpg	947.42	J/mol×K	940.54	Joback Method
cpg	960.48	J/mol×K	975.45	Joback Method
cpg	972.25	J/mol×K	1010.36	Joback Method
cpg	982.73	J/mol×K	1045.27	Joback Method
cpg	991.93	J/mol×K	1080.18	Joback Method
cpg	999.86	J/mol×K	1115.10	Joback Method
dvisc	0.0003260	Pa×s	548.09	Joback Method

dvisc	0.0001842	Pa×s	607.68	Joback Method
dvisc	0.0001152	Pa×s	667.27	Joback Method
dvisc	0.0000778	Pa×s	726.86	Joback Method
dvisc	0.0000558	Pa×s	786.45	Joback Method
dvisc	0.0000419	Pa×s	846.04	Joback Method
dvisc	0.0000327	Pa×s	905.63	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U393910&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

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