Glutaric acid, 2-ethylhexyl 2-methoxyphenyl ester

Inchi: InChI=1S/C20H30O5/c1-4-6-10-16(5-2)15-24-19(21)13-9-14-20(22)25-18-12-8-7-11-17(1

InchiKey: GBONECMRGSKJHW-UHFFFAOYSA-N

Formula: C20H30O5

SMILES: CCCCC(CC)COC(=O)CCCC(=O)Oc1ccccc1OC

Mol. weight [g/mol]: 350.45

Physical Properties

Property code	Value	Unit	Source
gf	-354.98	kJ/mol	Joback Method
hf	-858.17	kJ/mol	Joback Method
hfus	44.45	kJ/mol	Joback Method
hvap	83.39	kJ/mol	Joback Method
log10ws	-5.13		Crippen Method
logp	4.530		Crippen Method
mcvol	289.650	ml/mol	McGowan Method
pc	1332.96	kPa	Joback Method
rinpol	2469.00		NIST Webbook
rinpol	2469.00		NIST Webbook
tb	863.22	K	Joback Method
tc	1066.21	K	Joback Method
tf	505.65	K	Joback Method
vc	1.107	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	907.61	J/mol×K	863.22	Joback Method
cpg	923.35	J/mol×K	897.05	Joback Method
cpg	937.85	J/mol×K	930.88	Joback Method
cpg	951.12	J/mol×K	964.72	Joback Method
cpg	963.17	J/mol×K	998.55	Joback Method
cpg	974.01	J/mol×K	1032.38	Joback Method
cpg	983.65	J/mol×K	1066.21	Joback Method
dvisc	0.0004662	Pa×s	505.65	Joback Method

dvisc	0.0002457	Pa×s	565.25	Joback Method
dvisc	0.0001463	Pa×s	624.84	Joback Method
dvisc	0.0000953	Pa×s	684.43	Joback Method
dvisc	0.0000666	Pa×s	744.03	Joback Method
dvisc	0.0000490	Pa×s	803.62	Joback Method
dvisc	0.0000376	Pa×s	863.22	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U391761&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