Succinic acid, 2-ethylhexyl 2-methoxyphenyl ester

Inchi: InChI=1S/C19H28O5/c1-4-6-9-15(5-2)14-23-18(20)12-13-19(21)24-17-11-8-7-10-16(17)2

InchiKey: ILICTZVUYPDKHH-UHFFFAOYSA-N

Formula: C19H28O5

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

Mol. weight [g/mol]: 336.42

Physical Properties

Property code	Value	Unit	Source
gf	-363.40	kJ/mol	Joback Method
hf	-837.53	kJ/mol	Joback Method
hfus	41.86	kJ/mol	Joback Method
hvap	81.16	kJ/mol	Joback Method
log10ws	-4.71		Crippen Method
logp	4.140		Crippen Method
mcvol	275.560	ml/mol	McGowan Method
pc	1431.55	kPa	Joback Method
rinpol	2389.00		NIST Webbook
rinpol	2389.00		NIST Webbook
tb	840.34	K	Joback Method
tc	1042.54	K	Joback Method
tf	494.38	K	Joback Method
vc	1.052	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	848.69	J/mol×K	840.34	Joback Method
cpg	864.27	J/mol×K	874.04	Joback Method
cpg	878.66	J/mol×K	907.74	Joback Method
cpg	891.88	J/mol×K	941.44	Joback Method
cpg	903.93	J/mol×K	975.14	Joback Method
cpg	914.81	J/mol×K	1008.84	Joback Method
cpg	924.54	J/mol×K	1042.54	Joback Method
dvisc	0.0005184	Pa×s	494.38	Joback Method

dvisc	0.0002763	Pa×s	552.04	Joback Method
dvisc	0.0001659	Pa×s	609.70	Joback Method
dvisc	0.0001088	Pa×s	667.36	Joback Method
dvisc	0.0000763	Pa×s	725.02	Joback Method
dvisc	0.0000564	Pa×s	782.68	Joback Method
dvisc	0.0000434	Pa×s	840.34	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U389710&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