Succinic acid, 2-ethylhexyl hept-1,6-dien-4-yl ester

Inchi: InChI=1S/C19H32O4/c1-5-9-12-16(8-4)15-22-18(20)13-14-19(21)23-17(10-6-2)11-7-3/h6

InchiKey: IMRMLXJWKJDPGY-UHFFFAOYSA-N

Formula: C19H32O4

SMILES: C=CCC(CC=C)OC(=O)CCC(=O)OCC(CC)CCCC

Mol. weight [g/mol]: 324.45

Physical Properties

Property code	Value	Unit	Source
gf	-187.94	kJ/mol	Joback Method
hf	-684.79	kJ/mol	Joback Method
hfus	40.93	kJ/mol	Joback Method
hvap	74.08	kJ/mol	Joback Method
log10ws	-5.08		Crippen Method
logp	4.590		Crippen Method
mcvol	284.850	ml/mol	McGowan Method
pc	1231.15	kPa	Joback Method
rinpol	2053.00		NIST Webbook
rinpol	2053.00		NIST Webbook
tb	779.18	K	Joback Method
tc	964.23	K	Joback Method
tf	414.69	K	Joback Method
vc	1.097	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	857.28	J/mol×K	779.18	Joback Method
cpg	874.30	J/mol×K	810.02	Joback Method
cpg	890.36	J/mol×K	840.86	Joback Method
cpg	905.47	J/mol×K	871.71	Joback Method
cpg	919.66	J/mol×K	902.55	Joback Method
cpg	932.94	J/mol×K	933.39	Joback Method
cpg	945.34	J/mol×K	964.23	Joback Method
dvisc	0.0013580	Pa×s	414.69	Joback Method

dvisc	0.0005764	Pa×s	475.44	Joback Method
dvisc	0.0002971	Pa×s	536.19	Joback Method
dvisc	0.0001752	Pa×s	596.93	Joback Method
dvisc	0.0001139	Pa×s	657.68	Joback Method
dvisc	0.0000797	Pa×s	718.43	Joback Method
dvisc	0.0000589	Pa×s	779.18	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U391332&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