Succinic acid, di(hept-1,6-dien-4-yl) ester

Inchi: InChI=1S/C18H26O4/c1-5-9-15(10-6-2)21-17(19)13-14-18(20)22-16(11-7-3)12-8-4/h5-8,
InchiKey: HZABQDTVBMJUPY-UHFFFAOYSA-N
Formula: C18H26O4
SMILES: C=CCC(CC=C)OC(=O)CCC(=O)OC(CC=C)CC=C
Mol. weight [g/mol]: 306.40

Physical Properties

Property code	Value	Unit	Source
gf	-20.68	kJ/mol	Joback Method
hf	-413.29	kJ/mol	Joback Method
hfus	35.78	kJ/mol	Joback Method
hvap	70.52	kJ/mol	Joback Method
log10ws	-4.72		Crippen Method
logp	3.895		Crippen Method
mcvol	262.160	ml/mol	McGowan Method
pc	1402.74	kPa	Joback Method
rinpol	1879.00		NIST Webbook
rinpol	1879.00		NIST Webbook
tb	749.66	K	Joback Method
tc	937.15	K	Joback Method
tf	399.90	K	Joback Method
vc	1.004	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	748.23	J/mol×K	749.66	Joback Method
cpg	817.83	J/mol×K	905.91	Joback Method
cpg	805.59	J/mol×K	874.66	Joback Method
cpg	792.53	J/mol×K	843.41	Joback Method
cpg	778.64	J/mol×K	812.16	Joback Method
cpg	763.88	J/mol×K	780.91	Joback Method
cpg	829.28	J/mol×K	937.15	Joback Method
dvisc	0.0000762	Pa×s	749.66	Joback Method

dvisc	0.0001016	Pa×s	691.37	Joback Method
dvisc	0.0001428	Pa×s	633.07	Joback Method
dvisc	0.0002150	Pa×s	574.78	Joback Method
dvisc	0.0003553	Pa×s	516.49	Joback Method
dvisc	0.0006670	Pa×s	458.19	Joback Method
dvisc	0.0015045	Pa×s	399.90	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=U391336&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