Succinic acid, hexyl pent-4-enyl ester

Inchi: InChI=1S/C15H26O4/c1-3-5-7-9-13-19-15(17)11-10-14(16)18-12-8-6-4-2/h4H,2-3,5-13H
InchiKey: RXWMKNMUSIQHRD-UHFFFAOYSA-N
Formula: C15H26O4
SMILES: C=CCCCOC(=O)CCC(=O)OCCCCCC
Mol. weight [g/mol]: 270.36

Physical Properties

Property code	Value	Unit	Source
gf	-304.58	kJ/mol	Joback Method
hf	-717.10	kJ/mol	Joback Method
hfus	38.90	kJ/mol	Joback Method
hvap	66.63	kJ/mol	Joback Method
log10ws	-3.68		Crippen Method
logp	3.399		Crippen Method
mcvol	232.790	ml/mol	McGowan Method
pc	1569.72	kPa	Joback Method
rinpol	1839.00		NIST Webbook
rinpol	1839.00		NIST Webbook
tb	691.86	K	Joback Method
tc	869.60	K	Joback Method
tf	401.37	K	Joback Method
vc	0.904	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	653.38	J/mol×K	691.86	Joback Method
cpg	668.97	J/mol×K	721.48	Joback Method
cpg	683.81	J/mol×K	751.11	Joback Method
cpg	697.90	J/mol×K	780.73	Joback Method
cpg	711.24	J/mol×K	810.35	Joback Method
cpg	723.86	J/mol×K	839.98	Joback Method
cpg	735.75	J/mol×K	869.60	Joback Method
dvisc	0.0013617	Pa×s	401.37	Joback Method

dvisc	0.0007165	Pa×s	449.78	Joback Method
dvisc	0.0004271	Pa×s	498.20	Joback Method
dvisc	0.0002791	Pa×s	546.62	Joback Method
dvisc	0.0001954	Pa×s	595.03	Joback Method
dvisc	0.0001444	Pa×s	643.44	Joback Method
dvisc	0.0001113	Pa×s	691.86	Joback Method

Sources

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=U353372&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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