Succinic acid, cyclohexylmethyl tetradec-3-en-1-yl ester

Inchi: InChI=1S/C25H44O4/c1-2-3-4-5-6-7-8-9-10-11-12-16-21-28-24(26)19-20-25(27)29-22-23

InchiKey: IPRONVXRICSEPL-VAWYXSNFSA-N

Formula: C25H44O4

SMILES: CCCCCCCCCCC=CCCOC(=O)CCC(=O)OCC1CCCCC1

Mol. weight [g/mol]: 408.61

Physical Properties

Property code	Value	Unit	Source
gf	-203.55	kJ/mol	Joback Method
hf	-877.39	kJ/mol	Joback Method
hfus	58.12	kJ/mol	Joback Method
hvap	89.94	kJ/mol	Joback Method
log10ws	-7.52		Crippen Method
logp	6.910		Crippen Method
mcvol	362.830	ml/mol	McGowan Method
pc	935.77	kPa	Joback Method
rinpol	3004.00		NIST Webbook
rinpol	3004.00		NIST Webbook
tb	947.69	K	Joback Method
tc	1160.29	K	Joback Method
tf	518.13	K	Joback Method
vc	1.397	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1250.71	J/mol×K	947.69	Joback Method
cpg	1269.99	J/mol×K	983.12	Joback Method
cpg	1287.75	J/mol×K	1018.56	Joback Method
cpg	1304.05	J/mol×K	1053.99	Joback Method
cpg	1318.94	J/mol×K	1089.43	Joback Method
cpg	1332.48	J/mol×K	1124.86	Joback Method
cpg	1344.74	J/mol×K	1160.29	Joback Method
dvisc	0.0004851	Pa×s	518.13	Joback Method

dvisc	0.0002135	Pa×s	589.72	Joback Method
dvisc	0.0001123	Pa×s	661.32	Joback Method
dvisc	0.0000669	Pa×s	732.91	Joback Method
dvisc	0.0000438	Pa×s	804.50	Joback Method
dvisc	0.0000307	Pa×s	876.10	Joback Method
dvisc	0.0000227	Pa×s	947.69	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U391059&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