Succinic acid, pentyl tetradec-11-enyl ester

Inchi: InChI=1S/C23H42O4/c1-3-5-7-8-9-10-11-12-13-14-15-17-21-27-23(25)19-18-22(24)26-2
InchiKey: XVSNSKVEGJEKDR-FNORWQNLSA-N
Formula: C23H42O4
SMILES: CCC=CCCCCCCCCCCOC(=O)CCC(=O)OCCCCC
Mol. weight [g/mol]: 382.58

Physical Properties

Property code	Value	Unit	Source
gf	-244.84	kJ/mol	Joback Method
hf	-890.43	kJ/mol	Joback Method
hfus	61.10	kJ/mol	Joback Method
hvap	85.06	kJ/mol	Joback Method
log10ws	-7.03		Crippen Method
logp	6.520		Crippen Method
mcvol	345.510	ml/mol	McGowan Method
pc	928.37	kPa	Joback Method
rinpol	2639.00		NIST Webbook
tb	882.38	K	Joback Method
tc	1080.29	K	Joback Method
tf	488.21	K	Joback Method
vc	1.351	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1127.87	J/mol×K	882.38	Joback Method
cpg	1211.47	J/mol×K	1047.30	Joback Method
cpg	1197.00	J/mol×K	1014.32	Joback Method
cpg	1181.44	J/mol×K	981.33	Joback Method
cpg	1164.75	J/mol×K	948.35	Joback Method
cpg	1146.91	J/mol×K	915.36	Joback Method
cpg	1224.91	J/mol×K	1080.29	Joback Method
dvisc	0.0000299	Pa×s	882.38	Joback Method
dvisc	0.0000400	Pa×s	816.68	Joback Method

dvisc	0.0000562	Pa×s	750.99	Joback Method
dvisc	0.0000845	Pa×s	685.30	Joback Method
dvisc	0.0001384	Pa×s	619.60	Joback Method
dvisc	0.0002548	Pa×s	553.90	Joback Method
dvisc	0.0005530	Pa×s	488.21	Joback Method

Sources

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

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U353357&Units=SI

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