Succinic acid, hex-4-yn-3-yl tetradec-3-en-1-yl ester

Inchi: InChI=1S/C24H40O4/c1-4-7-8-9-10-11-12-13-14-15-16-17-21-27-23(25)19-20-24(26)28-

InchiKey: VNXQGQBEMCSBIK-FOCLMDBBSA-N

Formula: C24H40O4

SMILES: CC#CC(CC)OC(=O)CCC(=O)OCCC=CCCCCCCCCCC

Mol. weight [g/mol]: 392.57

Physical Properties

Property code	Value	Unit	Source
gf	-36.06	kJ/mol	Joback Method
hf	-644.05	kJ/mol	Joback Method
hfus	63.29	kJ/mol	Joback Method
hvap	89.05	kJ/mol	Joback Method
log10ws	-7.35		Crippen Method
logp	6.132		Crippen Method
mcvol	351.000	ml/mol	McGowan Method
pc	970.49	kPa	Joback Method
rinpol	2735.00		NIST Webbook
rinpol	2735.00		NIST Webbook
tb	913.82	K	Joback Method
tc	1119.31	K	Joback Method
tf	590.58	K	Joback Method
vc	1.363	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1137.85	J/mol×K	913.82	Joback Method
cpg	1156.08	J/mol×K	948.07	Joback Method
cpg	1173.08	J/mol×K	982.32	Joback Method
cpg	1188.88	J/mol×K	1016.56	Joback Method
cpg	1203.53	J/mol×K	1050.81	Joback Method
cpg	1217.08	J/mol×K	1085.06	Joback Method
cpg	1229.55	J/mol×K	1119.31	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U391056&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
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