

Succinic acid, di(hex-5-en-1-yl) ester

Inchi:	InChI=1S/C16H26O4/c1-3-5-7-9-13-19-15(17)11-12-16(18)20-14-10-8-6-4-2/h3-4H,1-2,5
InchiKey:	RSYMZTYHFQZTRK-UHFFFAOYSA-N
Formula:	C16H26O4
SMILES:	C=CCCCCOC(=O)CCC(=O)OCCCCC=C
Mol. weight [g/mol]:	282.38

Physical Properties

Property code	Value	Unit	Source
gf	-208.32	kJ/mol	Joback Method
hf	-612.31	kJ/mol	Joback Method
hfus	40.21	kJ/mol	Joback Method
hvap	68.18	kJ/mol	Joback Method
log10ws	-3.95		Crippen Method
logp	3.566		Crippen Method
mvol	242.580	ml/mol	McGowan Method
pc	1504.65	kPa	Joback Method
rinpol	1950.00		NIST Webbook
rinpol	1950.00		NIST Webbook
tb	711.42	K	Joback Method
tc	891.01	K	Joback Method
tf	410.88	K	Joback Method
vc	0.942	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	684.63	J/molxK	711.42	Joback Method
cpg	754.46	J/molxK	861.07	Joback Method
cpg	742.02	J/molxK	831.14	Joback Method
cpg	728.83	J/molxK	801.21	Joback Method
cpg	714.87	J/molxK	771.28	Joback Method
cpg	700.15	J/molxK	741.35	Joback Method
cpg	766.16	J/molxK	891.01	Joback Method
dvisc	0.0001034	Paxs	711.42	Joback Method

dvisc	0.0001339	Paxs	661.33	Joback Method
dvisc	0.0001808	Paxs	611.24	Joback Method
dvisc	0.0002575	Paxs	561.15	Joback Method
dvisc	0.0003932	Paxs	511.06	Joback Method
dvisc	0.0006583	Paxs	460.97	Joback Method
dvisc	0.0012494	Paxs	410.88	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=U391292&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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

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