Adipic acid, di(pent-4-en-2-yl) ester

Inchi: InChI=1S/C16H26O4/c1-5-9-13(3)19-15(17)11-7-8-12-16(18)20-14(4)10-6-2/h5-6,13-14H
InchiKey: DVDZMSVFHVJCEH-UHFFFAOYSA-N
Formula: C16H26O4
SMILES: C=CCC(C)OC(=O)CCCCC(=O)OC(C)CC=C
Mol. weight [g/mol]: 282.38

Physical Properties

Property code	Value	Unit	Source
gf	-213.20	kJ/mol	Joback Method
hf	-622.87	kJ/mol	Joback Method
hfus	33.16	kJ/mol	Joback Method
hvap	67.41	kJ/mol	Joback Method
log10ws	-4.18		Crippen Method
logp	3.562		Crippen Method
mcvol	242.580	ml/mol	McGowan Method
pc	1523.50	kPa	Joback Method
rinpol	1791.00		NIST Webbook
rinpol	1791.00		NIST Webbook
tb	710.54	K	Joback Method
tc	894.58	K	Joback Method
tf	380.88	K	Joback Method
vc	0.929	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	685.62	J/mol×K	710.54	Joback Method
cpg	757.04	J/mol×K	863.90	Joback Method
cpg	744.39	J/mol×K	833.23	Joback Method
cpg	730.93	J/mol×K	802.56	Joback Method
cpg	716.67	J/mol×K	771.89	Joback Method
cpg	701.57	J/mol×K	741.21	Joback Method
cpg	768.90	J/mol×K	894.58	Joback Method
dvisc	0.0000884	Pa×s	710.54	Joback Method

dvisc	0.0001187	Pa×s	655.60	Joback Method
dvisc	0.0001682	Pa×s	600.65	Joback Method
dvisc	0.0002557	Pa×s	545.71	Joback Method
dvisc	0.0004269	Pa×s	490.77	Joback Method
dvisc	0.0008112	Pa×s	435.82	Joback Method
dvisc	0.0018549	Pa×s	380.88	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=U354134&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