Adipic acid, di(pent-4-enyl) ester

Inchi: InChI=1S/C16H26O4/c1-3-5-9-13-19-15(17)11-7-8-12-16(18)20-14-10-6-4-2/h3-4H,1-2,5
InchiKey: ATARNRXKSIAJEH-UHFFFAOYSA-N
Formula: C16H26O4
SMILES: C=CCCCOC(=O)CCCCC(=O)OCCCC=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
mcvol	242.580	ml/mol	McGowan Method
pc	1504.65	kPa	Joback Method
rinpol	1948.00		NIST Webbook
rinpol	1948.00		NIST Webbook
tb	711.42	K	Joback Method
tc	891.01	K	Joback Method
tf	410.88	K	Joback Method
vc	0.942	m3/kmol	Joback Method

Temperature Dependent Properties

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

dvisc	0.0001339	Pa×s	661.33	Joback Method
dvisc	0.0001808	Pa×s	611.24	Joback Method
dvisc	0.0002575	Pa×s	561.15	Joback Method
dvisc	0.0003932	Pa×s	511.06	Joback Method
dvisc	0.0006583	Pa×s	460.97	Joback Method
dvisc	0.0012494	Pa×s	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=U353809&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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