Dipropyl pimelate

Inchi: InChI=1S/C13H24O4/c1-3-10-16-12(14)8-6-5-7-9-13(15)17-11-4-2/h3-11H2,1-2H3
InchiKey: PKQHRIXOXXYVJL-UHFFFAOYSA-N
Formula: C13H24O4
SMILES: CCCOC(=O)CCCCCC(=O)OCCC
Mol. weight [g/mol]: 244.33

Physical Properties

Property code	Value	Unit	Source
gf	-409.26	kJ/mol	Joback Method
hf	-801.25	kJ/mol	Joback Method
hfus	35.00	kJ/mol	Joback Method
hvap	62.84	kJ/mol	Joback Method
log10ws	-2.99		Crippen Method
logp	2.843		Crippen Method
mcvol	208.910	ml/mol	McGowan Method
pc	1774.35	kPa	Joback Method
rinpol	1641.00		NIST Webbook
rinpol	1641.00		NIST Webbook
tb	649.42	K	Joback Method
tc	825.90	K	Joback Method
tf	380.59	K	Joback Method
vc	0.811	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	568.37	J/mol×K	649.42	Joback Method
cpg	583.50	J/mol×K	678.83	Joback Method
cpg	597.94	J/mol×K	708.25	Joback Method
cpg	611.72	J/mol×K	737.66	Joback Method
cpg	624.81	J/mol×K	767.07	Joback Method
cpg	637.24	J/mol×K	796.48	Joback Method
cpg	649.00	J/mol×K	825.90	Joback Method
dvisc	0.0016009	Pa×s	380.59	Joback Method

dvisc	0.0008539	Pa×s	425.40	Joback Method
dvisc	0.0005134	Pa×s	470.20	Joback Method
dvisc	0.0003373	Pa×s	515.00	Joback Method
dvisc	0.0002370	Pa×s	559.81	Joback Method
dvisc	0.0001754	Pa×s	604.62	Joback Method
dvisc	0.0001354	Pa×s	649.42	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=R542906&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