Sebacic acid, octyl pent-4-enyl ester

Inchi: InChI=1S/C23H42O4/c1-3-5-7-8-13-17-21-27-23(25)19-15-12-10-9-11-14-18-22(24)26-2
InchiKey: MIAVDUGNLUNDMI-UHFFFAOYSA-N
Formula: C23H42O4
SMILES: C=CCCCOC(=O)CCCCCCCCC(=O)OCCCCCCCC
Mol. weight [g/mol]: 382.58

Physical Properties

Property code	Value	Unit	Source
gf	-237.22	kJ/mol	Joback Method
hf	-882.22	kJ/mol	Joback Method
hfus	59.62	kJ/mol	Joback Method
hvap	84.43	kJ/mol	Joback Method
log10ws	-7.03		Crippen Method
logp	6.520		Crippen Method
mcvol	345.510	ml/mol	McGowan Method
pc	922.74	kPa	Joback Method
rinpol	2675.00		NIST Webbook
rinpol	2675.00		NIST Webbook
tb	874.90	K	Joback Method
tc	1071.16	K	Joback Method
tf	491.53	K	Joback Method
vc	1.353	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1126.08	J/mol×K	874.90	Joback Method
cpg	1145.15	J/mol×K	907.61	Joback Method
cpg	1162.98	J/mol×K	940.32	Joback Method
cpg	1179.62	J/mol×K	973.03	Joback Method
cpg	1195.08	J/mol×K	1005.74	Joback Method
cpg	1209.40	J/mol×K	1038.45	Joback Method
cpg	1222.62	J/mol×K	1071.16	Joback Method
dvisc	0.0006079	Pa×s	491.53	Joback Method

dvisc	0.0002910	Pa×s	555.42	Joback Method
dvisc	0.0001622	Pa×s	619.32	Joback Method
dvisc	0.0001008	Pa×s	683.22	Joback Method
dvisc	0.0000680	Pa×s	747.11	Joback Method
dvisc	0.0000488	Pa×s	811.01	Joback Method
dvisc	0.0000367	Pa×s	874.90	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=U355414&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