Sebacic acid, tetrahydrofurfuryl undecyl ester

Inchi: InChI=1S/C26H48O5/c1-2-3-4-5-6-7-10-13-16-21-30-25(27)19-14-11-8-9-12-15-20-26(28
InchiKey: HMSATPKJJQSGJN-UHFFFAOYSA-N
Formula: C26H48O5
SMILES: CCCCCCCCCCCOC(=O)CCCCCCCCC(=O)OCC1CCCO1
Mol. weight [g/mol]: 440.66

Physical Properties

Property code	Value	Unit	Source
gf	-349.37	kJ/mol	Joback Method
hf	-1141.09	kJ/mol	Joback Method
hfus	70.58	kJ/mol	Joback Method
hvap	96.55	kJ/mol	Joback Method
log10ws	-7.52		Crippen Method
logp	6.903		Crippen Method
mcvol	387.090	ml/mol	McGowan Method
pc	839.67	kPa	Joback Method
rinpol	3218.00		NIST Webbook
tb	989.09	K	Joback Method
tc	1214.99	K	Joback Method
tf	564.57	K	Joback Method
vc	1.502	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1372.64	J/mol×K	989.09	Joback Method
cpg	1392.39	J/mol×K	1026.74	Joback Method
cpg	1410.37	J/mol×K	1064.39	Joback Method
cpg	1426.65	J/mol×K	1102.04	Joback Method
cpg	1441.28	J/mol×K	1139.69	Joback Method
cpg	1454.34	J/mol×K	1177.34	Joback Method
cpg	1465.89	J/mol×K	1214.99	Joback Method
dvisc	0.0004321	Pa×s	564.57	Joback Method
dvisc	0.0002110	Pa×s	635.32	Joback Method

dvisc	0.0001190	Pa×s	706.08	Joback Method
dvisc	0.0000745	Pa×s	776.83	Joback Method
dvisc	0.0000504	Pa×s	847.58	Joback Method
dvisc	0.0000362	Pa×s	918.34	Joback Method
dvisc	0.0000273	Pa×s	989.09	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=U355727&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