Succinic acid, dec-2-yl tetrahydrofurfuryl ester

Inchi: InChI=1S/C19H34O5/c1-3-4-5-6-7-8-10-16(2)24-19(21)13-12-18(20)23-15-17-11-9-14-22
InchiKey: USSZUPUMSDWDPL-UHFFFAOYSA-N
Formula: C19H34O5
SMILES: CCCCCCCCC(C)OC(=O)CCC(=O)OCC1CCCO1
Mol. weight [g/mol]: 342.47

Physical Properties

Property code	Value	Unit	Source
gf	-410.75	kJ/mol	Joback Method
hf	-1001.89	kJ/mol	Joback Method
hfus	48.93	kJ/mol	Joback Method
hvap	80.58	kJ/mol	Joback Method
log10ws	-4.71		Crippen Method
logp	4.171		Crippen Method
mcvol	288.460	ml/mol	McGowan Method
pc	1302.35	kPa	Joback Method
rinpol	2378.00		NIST Webbook
rinpol	2378.00		NIST Webbook
tb	828.49	K	Joback Method
tc	1023.86	K	Joback Method
tf	470.68	K	Joback Method
vc	1.103	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	937.15	J/mol×K	828.49	Joback Method
cpg	1014.61	J/mol×K	991.30	Joback Method
cpg	1001.41	J/mol×K	958.73	Joback Method
cpg	987.09	J/mol×K	926.17	Joback Method
cpg	971.62	J/mol×K	893.61	Joback Method
cpg	954.98	J/mol×K	861.05	Joback Method
cpg	1026.71	J/mol×K	1023.86	Joback Method
dvisc	0.0000719	Pa×s	828.49	Joback Method

dvisc	0.0000954	Pa×s	768.86	Joback Method
dvisc	0.0001326	Pa×s	709.22	Joback Method
dvisc	0.0001958	Pa×s	649.59	Joback Method
dvisc	0.0003128	Pa×s	589.95	Joback Method
dvisc	0.0005554	Pa×s	530.32	Joback Method
dvisc	0.0011404	Pa×s	470.68	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390723&Units=SI
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

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