Succinic acid, 3-methylbut-2-yl tetrahydrofurfuryl ester

Inchi: InChI=1S/C14H24O5/c1-10(2)11(3)19-14(16)7-6-13(15)18-9-12-5-4-8-17-12/h10-12H,4-9

InchiKey: UOUYPQGZNCGMBE-UHFFFAOYSA-N

Formula: C14H24O5

SMILES: CC(C)C(C)OC(=O)CCC(=O)OCC1CCCO1

Mol. weight [g/mol]: 272.34

Physical Properties

Property code	Value	Unit	Source
gf	-455.29	kJ/mol	Joback Method
hf	-903.97	kJ/mol	Joback Method
hfus	32.46	kJ/mol	Joback Method
hvap	69.06	kJ/mol	Joback Method
log10ws	-2.37		Crippen Method
logp	2.077		Crippen Method
mcvol	218.010	ml/mol	McGowan Method
pc	1918.62	kPa	Joback Method
rinpol	1865.00		NIST Webbook
rinpol	1865.00		NIST Webbook
tb	713.65	K	Joback Method
tc	913.71	K	Joback Method
tf	399.33	K	Joback Method
vc	0.818	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	647.55	J/mol×K	713.65	Joback Method
cpg	664.56	J/mol×K	746.99	Joback Method
cpg	680.53	J/mol×K	780.34	Joback Method
cpg	695.46	J/mol×K	813.68	Joback Method
cpg	709.38	J/mol×K	847.02	Joback Method
cpg	722.29	J/mol×K	880.37	Joback Method
cpg	734.21	J/mol×K	913.71	Joback Method
dvisc	0.0022756	Pa×s	399.33	Joback Method

dvisc	0.0010761	Pa×s	451.72	Joback Method
dvisc	0.0005946	Pa×s	504.10	Joback Method
dvisc	0.0003674	Pa×s	556.49	Joback Method
dvisc	0.0002466	Pa×s	608.88	Joback Method
dvisc	0.0001763	Pa×s	661.26	Joback Method
dvisc	0.0001324	Pa×s	713.65	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=U390714&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