Succinic acid, di(1-tert-butoxyprop-2-yl) ester

Inchi: InChI=1S/C17H32O6/c1-9-15(23-17(6,7)8)21-14(19)11-10-13(18)20-12(2)22-16(3,4)5/h1
InchiKey: GSUXOVAYUKRKIB-UHFFFAOYSA-N
Formula: C17H32O6
SMILES: CCC(OC(=O)CCC(=O)OC(C)OC(C)(C)C)OC(C)(C)C
Mol. weight [g/mol]: 332.43

Physical Properties

Property code	Value	Unit	Source
gf	-584.78	kJ/mol	Joback Method
hf	-1176.31	kJ/mol	Joback Method
hfus	25.86	kJ/mol	Joback Method
hvap	73.20	kJ/mol	Joback Method
log10ws	-4.28		Crippen Method
logp	3.565		Crippen Method
mcvol	277.010	ml/mol	McGowan Method
pc	1333.93	kPa	Joback Method
rinpol	1934.00		NIST Webbook
rinpol	1934.00		NIST Webbook
tb	778.44	K	Joback Method
tc	971.19	K	Joback Method
tf	444.97	K	Joback Method
vc	1.038	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	855.99	J/mol×K	778.44	Joback Method
cpg	873.13	J/mol×K	810.57	Joback Method
cpg	889.17	J/mol×K	842.69	Joback Method
cpg	904.13	J/mol×K	874.82	Joback Method
cpg	918.02	J/mol×K	906.94	Joback Method
cpg	930.86	J/mol×K	939.07	Joback Method
cpg	942.68	J/mol×K	971.19	Joback Method
dvisc	0.0007099	Pa×s	444.97	Joback Method

dvisc	0.0003003	Pa×s	500.55	Joback Method
dvisc	0.0001508	Pa×s	556.13	Joback Method
dvisc	0.0000859	Pa×s	611.71	Joback Method
dvisc	0.0000537	Pa×s	667.28	Joback Method
dvisc	0.0000361	Pa×s	722.86	Joback Method
dvisc	0.0000257	Pa×s	778.44	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=U382462&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