

Succinic acid, di(3,3-dimethylbut-2-yl) ester

Inchi:	InChI=1S/C16H30O4/c1-11(15(3,4)5)19-13(17)9-10-14(18)20-12(2)16(6,7)8/h11-12H,9-1
InchiKey:	CJZNSDOPFMEAW-UHFFFAOYSA-N
Formula:	C16H30O4
SMILES:	CC(OC(=O)CCC(=O)OC(C)C(C)(C)C(C)C(C)C
Mol. weight [g/mol]:	286.41

Physical Properties

Property code	Value	Unit	Source
gf	-383.20	kJ/mol	Joback Method
hf	-891.23	kJ/mol	Joback Method
hfus	20.90	kJ/mol	Joback Method
hvap	66.15	kJ/mol	Joback Method
log10ws	-3.99		Crippen Method
logp	3.722		Crippen Method
mcvol	251.180	ml/mol	McGowan Method
pc	1470.23	kPa	Joback Method
rinpola	1682.00		NIST Webbook
tb	710.72	K	Joback Method
tc	904.46	K	Joback Method
tf	389.24	K	Joback Method
vc	0.946	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	738.79	J/molxK	710.72	Joback Method
cpg	756.57	J/molxK	743.01	Joback Method
cpg	773.29	J/molxK	775.30	Joback Method
cpg	789.01	J/molxK	807.59	Joback Method
cpg	803.75	J/molxK	839.88	Joback Method
cpg	817.56	J/molxK	872.17	Joback Method
cpg	830.48	J/molxK	904.46	Joback Method
dvisc	0.0020541	Paxs	389.24	Joback Method
dvisc	0.0007811	Paxs	442.82	Joback Method

dvisc	0.0003660	Paxs	496.40	Joback Method
dvisc	0.0001988	Paxs	549.98	Joback Method
dvisc	0.0001203	Paxs	603.56	Joback Method
dvisc	0.0000790	Paxs	657.14	Joback Method
dvisc	0.0000553	Paxs	710.72	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=U349525&Units=SI

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

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