

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

Inchi: InChI=1S/C12H18O6/c1-7(13)9(3)17-11(15)5-6-12(16)18-10(4)8(2)14/h9-10H,5-6H2,1-4
InchiKey: MJFIYODJICINQS-UHFFFAOYSA-N
Formula: C12H18O6
SMILES: CC(=O)C(C)OC(=O)CCC(=O)OC(C)C(C)=O
Mol. weight [g/mol]: 258.27

Physical Properties

Property code	Value	Unit	Source
gf	-680.40	kJ/mol	Joback Method
hf	-1016.33	kJ/mol	Joback Method
hfus	28.56	kJ/mol	Joback Method
hvap	73.33	kJ/mol	Joback Method
log10ws	-1.35		Crippen Method
logp	0.808		Crippen Method
mcvol	197.960	ml/mol	McGowan Method
pc	2191.78	kPa	Joback Method
rinpol	1740.00		NIST Webbook
rinpol	1740.00		NIST Webbook
tb	733.40	K	Joback Method
tc	930.78	K	Joback Method
tf	439.18	K	Joback Method
vc	0.755	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	553.68	J/molxK	733.40	Joback Method
cpg	566.31	J/molxK	766.30	Joback Method
cpg	578.13	J/molxK	799.19	Joback Method
cpg	589.14	J/molxK	832.09	Joback Method
cpg	599.33	J/molxK	864.99	Joback Method
cpg	608.71	J/molxK	897.88	Joback Method
cpg	617.27	J/molxK	930.78	Joback Method
dvisc	0.0015495	Paxs	439.18	Joback Method

dvisc	0.0008271	Paxs	488.22	Joback Method
dvisc	0.0004951	Paxs	537.25	Joback Method
dvisc	0.0003229	Paxs	586.29	Joback Method
dvisc	0.0002250	Paxs	635.33	Joback Method
dvisc	0.0001651	Paxs	684.36	Joback Method
dvisc	0.0001263	Paxs	733.40	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=U349590&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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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