

Succinic acid, 3-methylbut-2-yl but-3-en-1-yl ester

Inchi:	InChI=1S/C13H22O4/c1-5-6-9-16-12(14)7-8-13(15)17-11(4)10(2)3/h5,10-11H,1,6-9H2,2-
InchiKey:	QJUBXZHVTFKCOP-UHFFFAOYSA-N
Formula:	C13H22O4
SMILES:	C=CCCOC(=O)CCC(=O)OC(C)C(C)C
Mol. weight [g/mol]:	242.31

Physical Properties

Property code	Value	Unit	Source
gf	-326.30	kJ/mol	Joback Method
hf	-686.38	kJ/mol	Joback Method
hfus	26.67	kJ/mol	Joback Method
hvap	61.40	kJ/mol	Joback Method
log10ws	-2.71		Crippen Method
logp	2.474		Crippen Method
mcvol	204.610	ml/mol	McGowan Method
pc	1864.33	kPa	Joback Method
rinpol	1532.00		NIST Webbook
rinpol	1532.00		NIST Webbook
tb	645.22	K	Joback Method
tc	829.76	K	Joback Method
tf	348.83	K	Joback Method
vc	0.780	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	546.73	J/molxK	645.22	Joback Method
cpg	561.85	J/molxK	675.98	Joback Method
cpg	576.24	J/molxK	706.73	Joback Method
cpg	589.89	J/molxK	737.49	Joback Method
cpg	602.83	J/molxK	768.24	Joback Method
cpg	615.04	J/molxK	799.00	Joback Method
cpg	626.55	J/molxK	829.76	Joback Method
dvisc	0.0024709	Paxs	348.83	Joback Method

dvisc	0.0010978	Paxs	398.23	Joback Method
dvisc	0.0005833	Paxs	447.63	Joback Method
dvisc	0.0003515	Paxs	497.03	Joback Method
dvisc	0.0002321	Paxs	546.42	Joback Method
dvisc	0.0001642	Paxs	595.82	Joback Method
dvisc	0.0001225	Paxs	645.22	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U391187&Units=SI
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

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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