

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

Inchi:	InChI=1S/C12H22O5/c1-9(2)10(3)17-12(14)6-5-11(13)16-8-7-15-4/h9-10H,5-8H2,1-4H3
InchiKey:	KWGDYNAFAFLTHI-UHFFFAOYSA-N
Formula:	C12H22O5
SMILES:	COCCOC(=O)CCC(=O)OC(C)C(C)C
Mol. weight [g/mol]:	246.30

Physical Properties

Property code	Value	Unit	Source
gf	-527.56	kJ/mol	Joback Method
hf	-923.39	kJ/mol	Joback Method
hfus	26.55	kJ/mol	Joback Method
hvap	62.25	kJ/mol	Joback Method
log10ws	-1.53		Crippen Method
logp	1.544		Crippen Method
mcvol	200.690	ml/mol	McGowan Method
pc	1925.36	kPa	Joback Method
rinsol	1580.00		NIST Webbook
tb	648.08	K	Joback Method
tc	830.65	K	Joback Method
tf	361.55	K	Joback Method
vc	0.761	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	544.21	J/molxK	648.08	Joback Method
cpg	559.13	J/molxK	678.51	Joback Method
cpg	573.35	J/molxK	708.94	Joback Method
cpg	586.88	J/molxK	739.36	Joback Method
cpg	599.71	J/molxK	769.79	Joback Method
cpg	611.82	J/molxK	800.22	Joback Method
cpg	623.21	J/molxK	830.65	Joback Method
dvisc	0.0018669	Paxs	361.55	Joback Method
dvisc	0.0008676	Paxs	409.31	Joback Method

dvisc	0.0004732	Paxs	457.06	Joback Method
dvisc	0.0002895	Paxs	504.81	Joback Method
dvisc	0.0001928	Paxs	552.57	Joback Method
dvisc	0.0001370	Paxs	600.32	Joback Method
dvisc	0.0001023	Paxs	648.08	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=U390734&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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