

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

Inchi:	InChI=1S/C14H24O4/c1-10(2)11(3)17-13(15)8-9-14(16)18-12-6-4-5-7-12/h10-12H,4-9H2
InchiKey:	FJGBRJFSRWOBHV-UHFFFAOYSA-N
Formula:	C14H24O4
SMILES:	CC(C)C(C)OC(=O)CCC(=O)OC1CCCC1
Mol. weight [g/mol]:	256.34

Physical Properties

Property code	Value	Unit	Source
gf	-369.17	kJ/mol	Joback Method
hf	-771.97	kJ/mol	Joback Method
hfus	24.48	kJ/mol	Joback Method
hvap	64.55	kJ/mol	Joback Method
log10ws	-3.28		Crippen Method
logp	2.840		Crippen Method
mcvol	212.140	ml/mol	McGowan Method
pc	1933.83	kPa	Joback Method
rinpol	1730.00		NIST Webbook
rinpol	1730.00		NIST Webbook
tb	686.70	K	Joback Method
tc	887.64	K	Joback Method
tf	372.76	K	Joback Method
vc	0.796	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	614.04	J/molxK	686.70	Joback Method
cpg	692.74	J/molxK	854.15	Joback Method
cpg	679.05	J/molxK	820.66	Joback Method
cpg	664.34	J/molxK	787.17	Joback Method
cpg	648.62	J/molxK	753.68	Joback Method
cpg	631.85	J/molxK	720.19	Joback Method
cpg	705.45	J/molxK	887.64	Joback Method
dvisc	0.0001471	Paxs	686.70	Joback Method

dvisc	0.0001950	Paxs	634.38	Joback Method
dvisc	0.0002722	Paxs	582.05	Joback Method
dvisc	0.0004057	Paxs	529.73	Joback Method
dvisc	0.0006600	Paxs	477.41	Joback Method
dvisc	0.0012102	Paxs	425.08	Joback Method
dvisc	0.0026310	Paxs	372.76	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=U391373&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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