Succinic acid, di(3-methylbut-2-en-1-yl) ester

Inchi: InChI=1S/C14H22O4/c1-11(2)7-9-17-13(15)5-6-14(16)18-10-8-12(3)4/h7-8H,5-6,9-10H2
InchiKey: RNXFLMXLLKONLI-UHFFFAOYSA-N
Formula: C14H22O4
SMILES: CC(C)=CCOC(=O)CCC(=O)OCC=C(C)C
Mol. weight [g/mol]: 254.32

Physical Properties

Property code	Value	Unit	Source
gf	-257.50	kJ/mol	Joback Method
hf	-607.03	kJ/mol	Joback Method
hfus	35.37	kJ/mol	Joback Method
hvap	65.15	kJ/mol	Joback Method
log10ws	-3.12		Crippen Method
logp	2.785		Crippen Method
mcvol	214.400	ml/mol	McGowan Method
pc	1801.56	kPa	Joback Method
rinpol	1777.00		NIST Webbook
rinpol	1777.00		NIST Webbook
tb	680.38	K	Joback Method
tc	872.22	K	Joback Method
tf	353.78	K	Joback Method
vc	0.830	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	577.21	J/mol×K	680.38	Joback Method
cpg	592.19	J/mol×K	712.35	Joback Method
cpg	606.40	J/mol×K	744.33	Joback Method
cpg	619.85	J/mol×K	776.30	Joback Method
cpg	632.57	J/mol×K	808.27	Joback Method
cpg	644.59	J/mol×K	840.24	Joback Method
cpg	655.92	J/mol×K	872.22	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=U391039&Units=SI

Legend

cpg:	Ideal gas heat capacity
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