Succinic acid, but-3-yn-2-yl 3-fluorophenyl ester

Inchi: InChI=1S/C14H13FO4/c1-3-10(2)18-13(16)7-8-14(17)19-12-6-4-5-11(15)9-12/h1,4-6,9-1

InchiKey: PFXNMOXJHXQQOE-UHFFFAOYSA-N

Formula: C14H13FO4

SMILES: C#CC(C)OC(=O)CCC(=O)Oc1cccc(F)c1

Mol. weight [g/mol]: 264.25

Physical Properties

Property code	Value	Unit	Source
gf	-272.24	kJ/mol	Joback Method
hf	-506.32	kJ/mol	Joback Method
hfus	33.77	kJ/mol	Joback Method
hvap	66.66	kJ/mol	Joback Method
log10ws	-3.40		Crippen Method
logp	2.076		Crippen Method
mcvol	192.410	ml/mol	McGowan Method
pc	2395.87	kPa	Joback Method
rinpol	1739.00		NIST Webbook
rinpol	1739.00		NIST Webbook
tb	692.91	K	Joback Method
tc	905.65	K	Joback Method
tf	463.36	K	Joback Method
vc	0.734	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	500.89	J/mol×K	692.91	Joback Method
cpg	513.81	J/mol×K	728.37	Joback Method
cpg	525.85	J/mol×K	763.82	Joback Method
cpg	537.05	J/mol×K	799.28	Joback Method
cpg	547.40	J/mol×K	834.74	Joback Method
cpg	556.93	J/mol×K	870.19	Joback Method
cpg	565.65	J/mol×K	905.65	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=U390325&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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