Succinic acid, 2-fluorophenyl dec-4-en-1-yl ester

Inchi: InChI=1S/C20H27FO4/c1-2-3-4-5-6-7-8-11-16-24-19(22)14-15-20(23)25-18-13-10-9-12-1

InchiKey: WDTULKRFZAQNDS-VOTSOKGWSA-N

Formula: C20H27FO4

SMILES: CCCCCC=CCCCOC(=O)CCC(=O)Oc1ccccc1F

Mol. weight [g/mol]: 350.42

Physical Properties

Property code	Value	Unit	Source
gf	-362.13	kJ/mol	Joback Method
hf	-799.56	kJ/mol	Joback Method
hfus	50.06	kJ/mol	Joback Method
hvap	80.50	kJ/mol	Joback Method
log10ws	-5.86		Crippen Method
logp	4.971		Crippen Method
mcvol	281.250	ml/mol	McGowan Method
pc	1348.67	kPa	Joback Method
rinpol	2451.00		NIST Webbook
rinpol	2451.00		NIST Webbook
tb	844.67	K	Joback Method
tc	1044.56	K	Joback Method
tf	493.93	K	Joback Method
vc	1.093	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	858.64	J/mol×K	844.67	Joback Method
cpg	873.88	J/mol×K	877.99	Joback Method
cpg	888.08	J/mol×K	911.30	Joback Method
cpg	901.29	J/mol×K	944.62	Joback Method
cpg	913.52	J/mol×K	977.93	Joback Method
cpg	924.82	J/mol×K	1011.25	Joback Method
cpg	935.22	J/mol×K	1044.56	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U391174&Units=SI
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

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