Succinic acid, 2-fluorophenyl non-3-en-1-yl ester

Inchi: InChI=1S/C19H25FO4/c1-2-3-4-5-6-7-10-15-23-18(21)13-14-19(22)24-17-12-9-8-11-16(1

InchiKey: MBLGZKFDLOAELA-VOTSOKGWSA-N

Formula: C19H25FO4

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

Mol. weight [g/mol]: 336.40

Physical Properties

Property code	Value	Unit	Source
gf	-370.55	kJ/mol	Joback Method
hf	-778.92	kJ/mol	Joback Method
hfus	47.47	kJ/mol	Joback Method
hvap	78.28	kJ/mol	Joback Method
log10ws	-5.44		Crippen Method
logp	4.581		Crippen Method
mcvol	267.160	ml/mol	McGowan Method
pc	1449.04	kPa	Joback Method
rinpol	2342.00		NIST Webbook
rinpol	2342.00		NIST Webbook
tb	821.79	K	Joback Method
tc	1021.04	K	Joback Method
tf	482.66	K	Joback Method
vc	1.038	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	800.53	J/mol×K	821.79	Joback Method
cpg	815.49	J/mol×K	855.00	Joback Method
cpg	829.45	J/mol×K	888.21	Joback Method
cpg	842.45	J/mol×K	921.41	Joback Method
cpg	854.50	J/mol×K	954.62	Joback Method
cpg	865.65	J/mol×K	987.83	Joback Method
cpg	875.92	J/mol×K	1021.04	Joback Method

Sources

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=U391096&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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