Succinic acid, 2-fluorophenyl diphenylmethyl ester

Inchi: InChI=1S/C23H19FO4/c24-19-13-7-8-14-20(19)27-21(25)15-16-22(26)28-23(17-9-3-1-4-

InchiKey: WWIQZTSCZFLRJR-UHFFFAOYSA-N

Formula: C23H19FO4

SMILES: O=C(CCC(=O)OC(c1ccccc1)c1ccccc1)Oc1ccccc1F

Mol. weight [g/mol]: 378.39

Physical Properties

Property code	Value	Unit	Source
gf	-194.71	kJ/mol	Joback Method
hf	-510.92	kJ/mol	Joback Method
hfus	42.19	kJ/mol	Joback Method
hvap	91.39	kJ/mol	Joback Method
log10ws	-6.03		Crippen Method
logp	4.844		Crippen Method
mcvol	280.300	ml/mol	McGowan Method
pc	1746.28	kPa	Joback Method
rinpol	2860.00		NIST Webbook
rinpol	2860.00		NIST Webbook
tb	962.07	K	Joback Method
tc	1204.97	K	Joback Method
tf	570.66	K	Joback Method
vc	1.060	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	858.91	J/mol×K	962.07	Joback Method
cpg	870.65	J/mol×K	1002.55	Joback Method
cpg	880.95	J/mol×K	1043.04	Joback Method
cpg	889.89	J/mol×K	1083.52	Joback Method
cpg	897.55	J/mol×K	1124.00	Joback Method
cpg	904.00	J/mol×K	1164.49	Joback Method
cpg	909.32	J/mol×K	1204.97	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390170&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

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