

Succinic acid, dec-2-yl 2-fluorophenyl ester

Inchi:	InChI=1S/C20H29FO4/c1-3-4-5-6-7-8-11-16(2)24-19(22)14-15-20(23)25-18-13-10-9-12-
InchiKey:	NPVZXCBGRAXOFX-UHFFFAOYSA-N
Formula:	C20H29FO4
SMILES:	CCCCCCCCC(C)OC(=O)CCC(=O)Oc1ccccc1F
Mol. weight [g/mol]:	352.44

Physical Properties

Property code	Value	Unit	Source
gf	-444.79	kJ/mol	Joback Method
hf	-922.06	kJ/mol	Joback Method
hfus	46.34	kJ/mol	Joback Method
hvap	80.16	kJ/mol	Joback Method
log10ws	-6.11		Crippen Method
logp	5.194		Crippen Method
mvol	285.550	ml/mol	McGowan Method
pc	1306.12	kPa	Joback Method
rinpol	2312.00		NIST Webbook
rinpol	2312.00		NIST Webbook
tb	840.07	K	Joback Method
tc	1037.81	K	Joback Method
tf	484.01	K	Joback Method
vc	1.107	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	885.60	J/molxK	840.07	Joback Method
cpg	901.44	J/molxK	873.03	Joback Method
cpg	916.17	J/molxK	905.98	Joback Method
cpg	929.79	J/molxK	938.94	Joback Method
cpg	942.35	J/molxK	971.90	Joback Method
cpg	953.86	J/molxK	1004.86	Joback Method
cpg	964.34	J/molxK	1037.81	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=U390312&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
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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