

Succinic acid, dec-2-yl 2-bromo-4-fluorophenyl ester

Inchi:	InChI=1S/C20H28BrFO4/c1-3-4-5-6-7-8-9-15(2)25-19(23)12-13-20(24)26-18-11-10-16(2)
InchiKey:	MDOVKFQFZBKZGA-UHFFFAOYSA-N
Formula:	C20H28BrFO4
SMILES:	CCCCCCCCC(C)OC(=O)CCC(=O)Oc1ccc(F)cc1Br
Mol. weight [g/mol]:	431.34

Physical Properties

Property code	Value	Unit	Source
gf	-440.10	kJ/mol	Joback Method
hf	-907.20	kJ/mol	Joback Method
hfus	51.23	kJ/mol	Joback Method
hvap	87.26	kJ/mol	Joback Method
log10ws	-7.28		Crippen Method
logp	5.956		Crippen Method
mvol	303.050	ml/mol	McGowan Method
pc	1358.63	kPa	Joback Method
rinpol	2570.00		NIST Webbook
rinpol	2570.00		NIST Webbook
tb	911.21	K	Joback Method
tc	1121.61	K	Joback Method
tf	556.33	K	Joback Method
vc	1.169	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	924.82	J/mol×K	911.21	Joback Method
cpg	938.91	J/mol×K	946.28	Joback Method
cpg	951.84	J/mol×K	981.34	Joback Method
cpg	963.65	J/mol×K	1016.41	Joback Method
cpg	974.36	J/mol×K	1051.48	Joback Method
cpg	984.01	J/mol×K	1086.55	Joback Method
cpg	992.62	J/mol×K	1121.61	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=U389772&Units=SI

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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