

Sebacic acid, 3,5-difluorophenyl pentyl ester

Inchi:	InChI=1S/C21H30F2O4/c1-2-3-10-13-26-20(24)11-8-6-4-5-7-9-12-21(25)27-19-15-17(22)
InchiKey:	LXZYUAAZFKXDJH-UHFFFAOYSA-N
Formula:	C21H30F2O4
SMILES:	CCCCCOC(=O)CCCCCCCC(=O)Oc1cc(F)cc(F)c1
Mol. weight [g/mol]:	384.46

Physical Properties

Property code	Value	Unit	Source
gf	-638.37	kJ/mol	Joback Method
hf	-1145.00	kJ/mol	Joback Method
hfus	55.14	kJ/mol	Joback Method
hvap	82.62	kJ/mol	Joback Method
log10ws	-6.75		Crippen Method
logp	5.724		Crippen Method
mcvol	301.410	ml/mol	McGowan Method
pc	1164.04	kPa	Joback Method
rinpola	2545.00		NIST Webbook
rinpola	2545.00		NIST Webbook
tb	867.64	K	Joback Method
tc	1064.57	K	Joback Method
tf	523.39	K	Joback Method
vc	1.188	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	951.07	J/molxK	867.64	Joback Method
cpg	966.71	J/molxK	900.46	Joback Method
cpg	981.22	J/molxK	933.28	Joback Method
cpg	994.62	J/molxK	966.10	Joback Method
cpg	1006.93	J/molxK	998.92	Joback Method
cpg	1018.17	J/molxK	1031.75	Joback Method
cpg	1028.36	J/molxK	1064.57	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U354526&Units=SI
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

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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