

Sebacic acid, 2-fluorophenyl isobutyl ester

Inchi:	InChI=1S/C20H29FO4/c1-16(2)15-24-19(22)13-7-5-3-4-6-8-14-20(23)25-18-12-10-9-11-
InchiKey:	DMEVLVNHEHZIOA-UHFFFAOYSA-N
Formula:	C20H29FO4
SMILES:	CC(C)COC(=O)CCCCCCCC(=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	-5.76		Crippen Method
logp	5.051		Crippen Method
mvol	285.550	ml/mol	McGowan Method
pc	1306.12	kPa	Joback Method
rinpol	2451.00		NIST Webbook
rinpol	2451.00		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

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U354996&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

Latest version available from:

<https://www.chemeo.com/cid/62-649-3/Sebacic-acid-2-fluorophenyl-isobutyl-ester.pdf>

Generated by Cheméo on 2024-05-01 14:33:33.222103503 +0000 UTC m=+16863262.142680815.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.