

Isophthalic acid, monoamide, N-(2-fluorophenyl)-, nonyl ester

Inchi: InChI=1S/C23H28FNO3/c1-2-3-4-5-6-7-10-16-28-23(27)19-13-11-12-18(17-19)22(26)25
InchiKey: ULTQPKRQBQCOTM-UHFFFAOYSA-N
Formula: C23H28FNO3
SMILES: CCCCCCCCCOC(=O)c1cccc(C(=O)Nc2ccccc2F)c1
Mol. weight [g/mol]: 385.47

Physical Properties

Property code	Value	Unit	Source
gf	-119.92	kJ/mol	Joback Method
hf	-567.95	kJ/mol	Joback Method
hfus	55.20	kJ/mol	Joback Method
hvap	94.19	kJ/mol	Joback Method
log10ws	-7.37		Crippen Method
logp	5.985		Crippen Method
mcvol	308.170	ml/mol	McGowan Method
pc	1354.63	kPa	Joback Method
rinpol	3191.00		NIST Webbook
rinpol	3191.00		NIST Webbook
tb	968.56	K	Joback Method
tc	1191.22	K	Joback Method
tf	602.19	K	Joback Method
vc	1.190	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	991.61	J/mol×K	968.56	Joback Method
cpg	1005.30	J/mol×K	1005.67	Joback Method
cpg	1017.75	J/mol×K	1042.78	Joback Method
cpg	1029.03	J/mol×K	1079.89	Joback Method
cpg	1039.20	J/mol×K	1117.00	Joback Method
cpg	1048.33	J/mol×K	1154.11	Joback Method
cpg	1056.48	J/mol×K	1191.22	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U345783&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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
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
rlnpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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