

3-Fluoro-6-trifluoromethylbenzamide, N-pentyl-

Inchi:	InChI=1S/C13H15F4NO/c1-2-3-4-7-18-12(19)10-8-9(14)5-6-11(10)13(15,16)17/h5-6,8H,
InchiKey:	IEQWXVZIUGNQJV-UHFFFAOYSA-N
Formula:	C13H15F4NO
SMILES:	CCCCCNC(=O)c1cc(F)ccc1C(F)(F)F
Mol. weight [g/mol]:	277.26

Physical Properties

Property code	Value	Unit	Source
gf	-664.20	kJ/mol	Joback Method
hf	-950.36	kJ/mol	Joback Method
hfus	34.29	kJ/mol	Joback Method
hvap	56.75	kJ/mol	Joback Method
log10ws	-4.93		Crippen Method
logp	3.764		Crippen Method
mvol	188.900	ml/mol	McGowan Method
pc	1975.31	kPa	Joback Method
rinpol	1635.00		NIST Webbook
rinpol	1635.00		NIST Webbook
tb	631.37	K	Joback Method
tc	815.64	K	Joback Method
tf	395.10	K	Joback Method
vc	0.757	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	504.81	J/molxK	631.37	Joback Method
cpg	518.17	J/molxK	662.08	Joback Method
cpg	530.75	J/molxK	692.79	Joback Method
cpg	542.57	J/molxK	723.50	Joback Method
cpg	553.66	J/molxK	754.22	Joback Method
cpg	564.08	J/molxK	784.93	Joback Method
cpg	573.85	J/molxK	815.64	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=U358075&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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