Nonanal, PFBO # 1

Inchi: InChI=1S/C16H20F5NO/c1-2-3-4-5-6-7-8-9-22-23-10-11-12(17)14(19)16(21)15(20)13(11
InchiKey: DYTJHXNVXCBNHN-UHFFFAOYSA-N
Formula: C16H20F5NO
SMILES: CCCCCCCCC=NOCc1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]: 337.33

Physical Properties

Property code	Value	Unit	Source
hf	-1224.94	kJ/mol	Joback Method
hvap	58.44	kJ/mol	Joback Method
log10ws	-7.02		Crippen Method
logp	5.635		Crippen Method
mcvol	232.940	ml/mol	McGowan Method
pc	1235.48	kPa	Joback Method
rinpol	1751.00		NIST Webbook
ripol	2041.00		NIST Webbook
tb	712.51	K	Joback Method
tc	888.15	K	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R575807&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method

Legend

hf: Enthalpy of formation 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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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