Pentafluoropropanamide, N-decyl-

Inchi: InChI=1S/C13H22F5NO/c1-2-3-4-5-6-7-8-9-10-19-11(20)12(14,15)13(16,17)18/h2-10H2,
InchiKey: RFUJRYPDTKDCFM-UHFFFAOYSA-N
Formula: C13H22F5NO
SMILES: CCCCCCCCCCN=C(O)C(F)(F)C(F)(F)F
Mol. weight [g/mol]: 303.31

Physical Properties

Property code	Value	Unit	Source
hf	-1389.50	kJ/mol	Joback Method
hvap	57.93	kJ/mol	Joback Method
log10ws	-5.22		Crippen Method
logp	5.281		Crippen Method
mcvol	214.430	ml/mol	McGowan Method
pc	1412.25	kPa	Joback Method
rinpol	1467.00		NIST Webbook
rinpol	1467.00		NIST Webbook
tb	655.47	K	Joback Method
tc	816.42	K	Joback Method

Sources

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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U407340&Units=SI

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature