Pentafluoroguanidine

Inchi: InChI=1S/CF5N3/c2-7-1(8(3)4)9(5)6
InchiKey: HVBIIJJZPHDCMS-UHFFFAOYSA-N
Formula: CF5N3
SMILES: FN=C(N(F)F)N(F)F
Mol. weight [g/mol]: 149.02
CAS: 10051-06-6

Physical Properties

Property code	Value	Unit	Source
hf	95.70 ± 3.60	kJ/mol	NIST Webbook
hvap	21.21	kJ/mol	Joback Method
log10ws	-1.75		Crippen Method
logp	1.369		Crippen Method
mcvol	59.440	ml/mol	McGowan Method
pc	3704.46	kPa	Joback Method
tb	320.07	K	Joback Method
tc	463.82	K	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C10051066&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature