Butanal, PFBO # 1

Inchi: InChI=1S/C11H10F5NO/c1-2-3-4-17-18-5-6-7(12)9(14)11(16)10(15)8(6)13/h4H,2-3,5H2,
InchiKey: MDJOICYRBFIYJJ-UHFFFAOYSA-N
Formula: C11H10F5NO
SMILES: CCCC=NOCc1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]: 267.20

Physical Properties

Property code	Value	Unit	Source
hf	-1121.74	kJ/mol	Joback Method
hvap	47.31	kJ/mol	Joback Method
log10ws	-4.93		Crippen Method
logp	3.685		Crippen Method
mcvol	162.490	ml/mol	McGowan Method
pc	1787.88	kPa	Joback Method
rinpol	1271.00		NIST Webbook
rinpol	1271.00		NIST Webbook
ripol	1572.00		NIST Webbook
tb	598.11	K	Joback Method
tc	776.27	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=R575307&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature