6-Methyl-3,5-heptadien-2-one, PFBO # 1

Inchi: InChI=1S/C15H14F5NO/c1-8(2)5-4-6-9(3)21-22-7-10-11(16)13(18)15(20)14(19)12(10)17

InchiKey: FMXNZZXBMGGAHJ-GHFMCXKOSA-N

Formula: C15H14F5NO

SMILES: CC(C)=CC=CC(C)=NOCc1c(F)c(F)c(F)c(F)c1F

Mol. weight [g/mol]: 319.27

Physical Properties

Property code	Value	Unit	Source
hf	-989.44	kJ/mol	Joback Method
hvap	56.28	kJ/mol	Joback Method
log10ws	-6.31		Crippen Method
logp	4.797		Crippen Method
mcvol	210.250	ml/mol	McGowan Method
pc	1440.25	kPa	Joback Method
rinpol	1742.00		NIST Webbook
rinpol	1742.00		NIST Webbook
ripol	2191.00		NIST Webbook
tb	697.71	K	Joback Method
tc	887.70	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=R575070&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