

2,3-Pentanedione, PFBO # 2

Inchi: InChI=1S/C19H12F10N2O2/c1-3-9(31-33-5-8-12(22)16(26)19(29)17(27)13(8)23)6(2)30-5
InchiKey: QCZSYWXPYQVQDO-UHFFFAOYSA-N
Formula: C19H12F10N2O2
SMILES: CCC(=NOCc1c(F)c(F)c(F)c(F)c1F)C(C)=NOCc1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]: 490.29

Physical Properties

Property code	Value	Unit	Source
hf	-2157.81	kJ/mol	Joback Method
hvap	72.50	kJ/mol	Joback Method
log10ws	-8.77		Crippen Method
logp	5.953		Crippen Method
mcvol	271.850	ml/mol	McGowan Method
pc	968.07	kPa	Joback Method
rinpol	1393.00		NIST Webbook
rinpol	1393.00		NIST Webbook
ripol	1820.00		NIST Webbook
tb	927.94	K	Joback Method
tc	1136.13	K	Joback Method

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=R574611&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
McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

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
rinpola:	Non-polar retention indices
ripola:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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