Crotonaldehyde O-pentafluorophenylmethyl-oxime

Other names: Crotonaldehyde O-2,3,4,5,6-PFBHA-oxime
(E)-2-Butenal, PFBO # 2

Inchi: InChI=1S/C11H8F5NO/c1-2-3-4-17-18-5-6-7(12)9(14)11(16)10(15)8(6)13/h2-4H,5H2,1H

InchiKey: QNPFFCQTVXPCLD-ZBUYTABWSA-N

Formula: C11H8F5NO

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

Mol. weight [g/mol]: 265.18

CAS: 932710-52-6

Physical Properties

Property code	Value	Unit	Source
hf	-1004.52	kJ/mol	Joback Method
hvap	47.26	kJ/mol	Joback Method
log10ws	-4.78		Crippen Method
logp	3.461		Crippen Method
mcvol	158.190	ml/mol	McGowan Method
pc	1869.17	kPa	Joback Method
rinpol	1339.00		NIST Webbook
rinpol	1339.00		NIST Webbook
ripol	1763.00		NIST Webbook
ripol	1763.00		NIST Webbook
tb	602.27	K	Joback Method
tc	787.09	K	Joback Method

Sources

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=C932710526&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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