

Octanal, PFBO # 1

Inchi: InChI=1S/C15H18F5NO/c1-2-3-4-5-6-7-8-21-22-9-10-11(16)13(18)15(20)14(19)12(10)17
InchiKey: RLSQIXNUIITTXKZ-UHFFFAOYSA-N
Formula: C15H18F5NO
SMILES: CCCCCC=NOCc1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]: 323.30

Physical Properties

Property code	Value	Unit	Source
hf	-1204.30	kJ/mol	Joback Method
hvap	56.21	kJ/mol	Joback Method
log10ws	-6.60		Crippen Method
logp	5.245		Crippen Method
mcvol	218.850	ml/mol	McGowan Method
pc	1323.28	kPa	Joback Method
rinpol	1649.00		NIST Webbook
rinpol	1649.00		NIST Webbook
ripol	1943.00		NIST Webbook
ripol	1943.00		NIST Webbook
tb	689.63	K	Joback Method
tc	864.94	K	Joback Method

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=R575827&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307I>
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
hvac:	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
rinpolar:	Non-polar retention indices
ripolar:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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