

(E)-2-Heptenal, PFBO # 2

Inchi: InChI=1S/C14H14F5NO/c1-2-3-4-5-6-7-20-21-8-9-10(15)12(17)14(19)13(18)11(9)16/h5-
InchiKey: PEYJSQOBEFLESI-HXIWAJJLSA-N
Formula: C14H14F5NO
SMILES: CCCCC=CC=NOCc1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]: 307.26

Physical Properties

Property code	Value	Unit	Source
hf	-1066.44	kJ/mol	Joback Method
hvap	53.94	kJ/mol	Joback Method
log10ws	-6.03		Crippen Method
logp	4.631		Crippen Method
mcvol	200.460	ml/mol	McGowan Method
pc	1478.15	kPa	Joback Method
rinpol	1635.00		NIST Webbook
rinpol	1635.00		NIST Webbook
ripol	2016.00		NIST Webbook
ripol	2016.00		NIST Webbook
tb	670.91	K	Joback Method
tc	851.69	K	Joback Method

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=R575476&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
rinpola:	Non-polar retention indices
ripola:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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