

# (E)-2-Methyl-2-pentenal, PFBO # 1

**Inchi:** InChI=1S/C13H12F5NO/c1-3-4-7(2)5-19-20-6-8-9(14)11(16)13(18)12(17)10(8)15/h4-5H,  
**InchiKey:** PYTSBRIQCYYWOP-YSYKFMAYSA-N  
**Formula:** C13H12F5NO  
**SMILES:** CCC=C(C)C=NOCc1c(F)c(F)c(F)c(F)c1F  
**Mol. weight [g/mol]:** 293.23

## Physical Properties

Property code	Value	Unit	Source
hf	-1055.59	kJ/mol	Joback Method
hvap	51.80	kJ/mol	Joback Method
log10ws	-5.62		Crippen Method
logp	4.241		Crippen Method
mcvol	186.370	ml/mol	McGowan Method
pc	1600.00	kPa	Joback Method
ripol	1840.00		NIST Webbook
ripol	1840.00		NIST Webbook
tb	647.91	K	Joback Method
tc	832.12	K	Joback Method

## Sources

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)  
**Joback Method:** [https://en.wikipedia.org/wiki/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=R576102&Units=SI>

## Legend

**hf:** Enthalpy of formation at standard conditions  
**hvap:** Enthalpy of vaporization at standard conditions

<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

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