# 10-Undecenal, PFBO # 1

**Inchi:** InChI=1S/C18H22F5NO/c1-2-3-4-5-6-7-8-9-10-11-24-25-12-13-14(19)16(21)18(23)17(22
**InchiKey:** RNOVLPZWKHTRBO-UHFFFAOYSA-N
**Formula:** C18H22F5NO
**SMILES:** C=CCCCCCCCCC=NOCc1c(F)c(F)c(F)c(F)c1F
**Mol. weight [g/mol]:** 363.37

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | -1140.79 | kJ/mol | Joback Method |
| hvap | 62.22 | kJ/mol | Joback Method |
| log10ws | -7.71 | | Crippen Method |
| logp | 6.191 | | Crippen Method |
| mcvol | 256.820 | ml/mol | McGowan Method |
| pc | 1114.82 | kPa | Joback Method |
| rinpol | 1944.00 | | NIST Webbook |
| rinpol | 1944.00 | | NIST Webbook |
| ripol | 2298.00 | | NIST Webbook |
| ripol | 2298.00 | | NIST Webbook |
| tb | 754.95 | K | Joback Method |
| tc | 933.88 | K | Joback Method |

## Sources

**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=R576008&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

## 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 |