# Oxygen monofluoride

**Inchi:** InChI=1S/FO/c1-2
**InchiKey:** FXOFAYKVTOLJTJ-UHFFFAOYSA-N
**Formula:** FO
**SMILES:** [O]F
**Mol. weight [g/mol]:** 35.00
**CAS:** 12061-70-0

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| affp | 508.70 | kJ/mol | NIST Webbook |
| basg | 482.20 | kJ/mol | NIST Webbook |
| ea | 2.27 ± 0.01 | eV | NIST Webbook |
| ea | 2.05 ± 0.08 | eV | NIST Webbook |
| ea | 1.40 ± 0.50 | eV | NIST Webbook |
| ie | 12.77 | eV | NIST Webbook |
| ie | 12.77 | eV | NIST Webbook |
| ie | 12.80 ± 0.10 | eV | NIST Webbook |
| ie | 12.78 ± 0.03 | eV | NIST Webbook |
| log10ws | -4.56 | | Crippen Method |
| logp | 0.301 | | Crippen Method |
| mcvol | 16.350 | ml/mol | McGowan Method |

## Sources

**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l
**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws
**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C12061700&Units=SI

## Legend

| | |
|---|---|
| **affp:** | Proton affinity |
| **basg:** | Gas basicity |
| **ea:** | Electron affinity |
| **ie:** | Ionization energy |
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |

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