

# Water-18O

**Inchi:** InChI=1S/H2O/h1H2/i1+2  
**InchiKey:** XLYOFNOQVPJJNP-NJFSPNSNSA-N  
**Formula:** H218O  
**SMILES:** O  
**Mol. weight [g/mol]:** 20.02  
**CAS:** 14314-42-2

## Physical Properties

| Property code | Value         | Unit   | Source         |
|---------------|---------------|--------|----------------|
| ie            | 12.62 ± 0.00  | eV     | NIST Webbook   |
| log10ws       | 0.73          |        | Crippen Method |
| logp          | -0.825        |        | Crippen Method |
| mcvol         | 16.730        | ml/mol | McGowan Method |
| tf            | 273.43 ± 0.03 | K      | NIST Webbook   |

## Sources

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C14314422&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307l>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

## Legend

**ie:** Ionization energy  
**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume  
**tf:** Normal melting (fusion) point

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