# Furan, 2-ethyltetrahydro-

**Other names:** 2-Ethyl-tetrahydrofuran
**Inchi:** InChI=1S/C6H12O/c1-2-6-4-3-5-7-6/h6H,2-5H2,1H3
**InchiKey:** IHMXVSZXHFTOFN-UHFFFAOYSA-N
**Formula:** C6H12O
**SMILES:** CCC1CCCO1
**Mol. weight [g/mol]:** 100.16
**CAS:** 1003-30-1

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -49.93 | kJ/mol | Joback Method |
| hf | -238.69 | kJ/mol | Joback Method |
| hfus | 13.21 | kJ/mol | Joback Method |
| hvap | 33.72 | kJ/mol | Joback Method |
| log10ws | -1.43 | | Crippen Method |
| logp | 1.575 | | Crippen Method |
| mcvol | 90.410 | ml/mol | McGowan Method |
| pc | 3796.32 | kPa | Joback Method |
| rinpol | 768.00 | | NIST Webbook |
| rinpol | 768.00 | | NIST Webbook |
| rinpol | 768.00 | | NIST Webbook |
| tb | 378.15 ± 0.50 | K | NIST Webbook |
| tb | 380.15 ± 3.00 | K | NIST Webbook |
| tc | 575.15 | K | Joback Method |
| tf | 194.85 | K | Joback Method |
| vc | 0.334 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 165.67 | J/mol×K | 378.91 | Joback Method |
| cpg | 179.29 | J/mol×K | 411.62 | Joback Method |
| cpg | 192.25 | J/mol×K | 444.32 | Joback Method |
| cpg | 204.59 | J/mol×K | 477.03 | Joback Method |

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|---|---|---|---|---|
| cpg | 216.31 | J/mol×K | 509.74 | Joback Method |
| cpg | 227.44 | J/mol×K | 542.44 | Joback Method |
| cpg | 237.99 | J/mol×K | 575.15 | Joback Method |
| dvisc | 0.0044740 | Pa×s | 194.85 | Joback Method |
| dvisc | 0.0022056 | Pa×s | 225.53 | Joback Method |
| dvisc | 0.0012880 | Pa×s | 256.20 | Joback Method |
| dvisc | 0.0008439 | Pa×s | 286.88 | Joback Method |
| dvisc | 0.0005999 | Pa×s | 317.56 | Joback Method |
| dvisc | 0.0004529 | Pa×s | 348.23 | Joback Method |
| dvisc | 0.0003579 | Pa×s | 378.91 | Joback Method |

# Sources

**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
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C1003301&Units=SI
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l

# Legend

**cpg:** Ideal gas heat capacity
**dvisc:** Dynamic viscosity
**gf:** Standard Gibbs free energy of formation
**hf:** Enthalpy of formation at standard conditions
**hfus:** Enthalpy of fusion 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
**tb:** Normal Boiling Point Temperature
**tc:** Critical Temperature
**tf:** Normal melting (fusion) point
**vc:** Critical Volume

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