# Furan, 2,5-dihydro-3,4-dimethyl-

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|---|---|
| **Other names:** | 2,5-dihydro-3,4-dimethylfuran |
| | 2,5-Dihydro-3,4-dimethylfuran tentative |
| **Inchi:** | InChI=1S/C6H10O/c1-5-3-7-4-6(5)2/h3-4H2,1-2H3 |
| **InchiKey:** | MWXJLTQABGVNHS-UHFFFAOYSA-N |
| **Formula:** | C6H10O |
| **SMILES:** | CC1=C(C)COC1 |
| **Mol. weight [g/mol]:** | 98.14 |
| **CAS:** | 53720-72-2 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -31.52 | kJ/mol | Joback Method |
| hf | -183.51 | kJ/mol | Joback Method |
| hfus | 12.58 | kJ/mol | Joback Method |
| hvap | 35.64 | kJ/mol | Joback Method |
| log10ws | -1.17 | | Crippen Method |
| logp | 1.353 | | Crippen Method |
| mcvol | 86.110 | ml/mol | McGowan Method |
| pc | 3985.56 | kPa | Joback Method |
| rinpol | 730.00 | | NIST Webbook |
| rinpol | 732.00 | | NIST Webbook |
| rinpol | 732.00 | | NIST Webbook |
| tb | 392.70 | K | Joback Method |
| tc | 594.94 | K | Joback Method |
| tf | 224.89 | K | Joback Method |
| vc | 0.321 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 156.67 | J/mol×K | 392.70 | Joback Method |
| cpg | 206.39 | J/mol×K | 561.23 | Joback Method |
| cpg | 197.43 | J/mol×K | 527.52 | Joback Method |
| cpg | 187.99 | J/mol×K | 493.82 | Joback Method |

| | | | | |
|---|---|---|---|---|
| cpg | 178.06 | J/mol×K | 460.11 | Joback Method |
| cpg | 167.62 | J/mol×K | 426.41 | Joback Method |
| cpg | 214.90 | J/mol×K | 594.94 | Joback Method |
| dvisc | 0.0003119 | Pa×s | 392.70 | Joback Method |
| dvisc | 0.0003839 | Pa×s | 364.73 | Joback Method |
| dvisc | 0.0004889 | Pa×s | 336.76 | Joback Method |
| dvisc | 0.0006507 | Pa×s | 308.80 | Joback Method |
| dvisc | 0.0009166 | Pa×s | 280.83 | Joback Method |
| dvisc | 0.0013930 | Pa×s | 252.86 | Joback Method |
| dvisc | 0.0023492 | Pa×s | 224.89 | Joback Method |

# Sources

**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=C53720722&Units=SI
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l
**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws

# 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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