# 2H-Pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)

**Other names:** tetr
**Inchi:** InChI=1S/C10H20O2/c1-8(2)6-9-7-10(3,11)4-5-12-9/h8-9,11H,4-7H2,1-3H3
**InchiKey:** YVSNOTITPICPTB-UHFFFAOYSA-N
**Formula:** C10H20O2
**SMILES:** CC(C)CC1CC(C)(O)CCO1
**Mol. weight [g/mol]:** 172.26
**CAS:** 63500-71-0

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -180.81 | kJ/mol | Joback Method |
| hf | -490.02 | kJ/mol | Joback Method |
| hfus | 16.81 | kJ/mol | Joback Method |
| hvap | 57.62 | kJ/mol | Joback Method |
| log10ws | -2.24 | | Crippen Method |
| logp | 1.963 | | Crippen Method |
| mcvol | 152.640 | ml/mol | McGowan Method |
| pc | 2859.68 | kPa | Joback Method |
| rinpol | 1200.00 | | NIST Webbook |
| rinpol | 1200.00 | | NIST Webbook |
| tb | 562.01 | K | Joback Method |
| tc | 758.04 | K | Joback Method |
| tf | 301.89 | K | Joback Method |
| vc | 0.559 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 401.67 | J/mol×K | 562.01 | Joback Method |
| cpg | 417.91 | J/mol×K | 594.68 | Joback Method |
| cpg | 433.30 | J/mol×K | 627.35 | Joback Method |
| cpg | 447.89 | J/mol×K | 660.02 | Joback Method |
| cpg | 461.78 | J/mol×K | 692.70 | Joback Method |
| cpg | 475.05 | J/mol×K | 725.37 | Joback Method |

| | | | | |
|---|---|---|---|---|
| cpg | 487.77 | J/mol×K | 758.04 | Joback Method |

# Sources

| | |
|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C63500710&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

| | |
|---|---|
| **cpg:** | Ideal gas heat capacity |
| **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 |