# 1H-Inden-5-ol, 2,3-dihydro-

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|---|---|
| **Other names:** | 5-Hydroxyhydrindene |
| | 5-Hydroxyindan |
| | 5-Indanol |
| | Indanol-5 |
| | Indan-5-ol |
| **Inchi:** | InChI=1S/C9H10O/c10-9-5-4-7-2-1-3-8(7)6-9/h4-6,10H,1-3H2 |
| **InchiKey:** | PEHSSTUGJUBZBI-UHFFFAOYSA-N |
| **Formula:** | C9H10O |
| **SMILES:** | Oc1ccc2c(c1)CCC2 |
| **Mol. weight [g/mol]:** | 134.18 |
| **CAS:** | 1470-94-6 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 41.52 | kJ/mol | Joback Method |
| hf | -88.20 | kJ/mol | Joback Method |
| hfus | 15.56 | kJ/mol | Joback Method |
| hvap | 51.80 | kJ/mol | Joback Method |
| log10ws | -2.10 | | Crippen Method |
| logp | 1.881 | | Crippen Method |
| mcvol | 108.920 | ml/mol | McGowan Method |
| pc | 4730.11 | kPa | Joback Method |
| rinpol | 1335.00 | | NIST Webbook |
| tb | 528.20 | K | NIST Webbook |
| tc | 770.61 | K | Joback Method |
| tf | 328.00 ± 0.60 | K | NIST Webbook |
| vc | 0.355 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 313.18 | J/mol×K | 770.61 | Joback Method |
| cpg | 304.64 | J/mol×K | 730.34 | Joback Method |
| cpg | 295.51 | J/mol×K | 690.07 | Joback Method |

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|---|---|---|---|---|
| cpg | 285.67 | J/mol×K | 649.81 | Joback Method |
| cpg | 274.96 | J/mol×K | 609.54 | Joback Method |
| cpg | 263.25 | J/mol×K | 569.28 | Joback Method |
| cpg | 250.40 | J/mol×K | 529.01 | Joback Method |
| dvisc | 0.0022812 | Pa×s | 364.03 | Joback Method |
| dvisc | 0.0001256 | Pa×s | 529.01 | Joback Method |
| dvisc | 0.0001783 | Pa×s | 501.51 | Joback Method |
| dvisc | 0.0002638 | Pa×s | 474.02 | Joback Method |
| dvisc | 0.0004094 | Pa×s | 446.52 | Joback Method |
| dvisc | 0.0006733 | Pa×s | 419.02 | Joback Method |
| dvisc | 0.0011873 | Pa×s | 391.53 | Joback Method |
| hvapt | 55.40 | kJ/mol | 458.50 | NIST Webbook |

# Sources

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|---|---|
| **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=C1470946&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

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|---|---|
| **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 |
| **hvapt:** | Enthalpy of vaporization at a given temperature |
| **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