# «alpha»-Methyl-2-naphthalenemethanol

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|---|---|
| **Other names:** | 1-(2-Naphthyl)ethanol |
| | Methyl 2-naphtylcarbinol |
| | «beta»-Naphthyl methyl carbinol |
| | 2-Naphthalenemethanol, «alpha»-methyl- |
| | 1-(Naphthalen-2-yl)ethanol |
| | «alpha»-methylnaphthalene-2-methanol |
| **Inchi:** | InChI=1S/C12H12O/c1-9(13)11-7-6-10-4-2-3-5-12(10)8-11/h2-9,13H,1H3 |
| **InchiKey:** | AXRKCRWZRKETCK-UHFFFAOYSA-N |
| **Formula:** | C12H12O |
| **SMILES:** | CC(O)c1ccc2ccccc2c1 |
| **Mol. weight [g/mol]:** | 172.22 |
| **CAS:** | 40295-80-5 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 120.33 | kJ/mol | Joback Method |
| hf | -32.39 | kJ/mol | Joback Method |
| hfus | 18.07 | kJ/mol | Joback Method |
| hvap | 63.17 | kJ/mol | Joback Method |
| log10ws | -3.80 | | Crippen Method |
| logp | 2.893 | | Crippen Method |
| mcvol | 142.590 | ml/mol | McGowan Method |
| pc | 3423.86 | kPa | Joback Method |
| tb | 616.34 | K | Joback Method |
| tc | 833.18 | K | Joback Method |
| tf | 344.90 ± 2.00 | K | NIST Webbook |
| vc | 0.534 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 348.62 | J/mol×K | 616.34 | Joback Method |
| cpg | 360.97 | J/mol×K | 652.48 | Joback Method |
| cpg | 372.47 | J/mol×K | 688.62 | Joback Method |

| | | | | |
|---|---|---|---|---|
| cpg | 383.17 | J/mol×K | 724.76 | Joback Method |
| cpg | 393.14 | J/mol×K | 760.90 | Joback Method |
| cpg | 402.45 | J/mol×K | 797.04 | Joback Method |
| cpg | 411.15 | J/mol×K | 833.18 | Joback Method |
| dvisc | 0.0045007 | Pa×s | 342.46 | Joback Method |
| dvisc | 0.0016725 | Pa×s | 388.11 | Joback Method |
| dvisc | 0.0007655 | Pa×s | 433.75 | Joback Method |
| dvisc | 0.0004066 | Pa×s | 479.40 | Joback Method |
| dvisc | 0.0002411 | Pa×s | 525.05 | Joback Method |
| dvisc | 0.0001554 | Pa×s | 570.69 | Joback Method |
| dvisc | 0.0001069 | Pa×s | 616.34 | Joback Method |

# Sources

**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
**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C40295805&Units=SI

# 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
**tb:** Normal Boiling Point Temperature
**tc:** Critical Temperature
**tf:** Normal melting (fusion) point
**vc:** Critical Volume

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