# 1,1'-Bi-2-naphthol

**Other names:** [1,1'-Binaphthalene]-2,2'-diol
di-«beta»-Naphthol
2,2'-Dihydroxy-1,1'-dinaphthyl
«alpha»-Binaphthyl-2,2'-diol
«beta»-Binaphthol
Bis-«beta»-naphthol
1,1'-Bis-2-naphthol
2,2'-Dihydroxy-1,1'-binaphthalene
2,2'-Dihydroxy-1,1'-binaphthyl
2,2'-Dihydroxybinaphthalene
2,2'-Dihydroxydinaphthyl
2,2'-Dinaphthol
di-beta-Naphthol
1,1'-Binaphthyl-2,2'-diol
NSC 27049

**Inchi:** InChI=1S/C20H14O2/c21-17-11-9-13-5-1-3-7-15(13)19(17)20-16-8-4-2-6-14(16)10-12-18

**InchiKey:** PPTXVXKCQZKFBN-UHFFFAOYSA-N

**Formula:** C20H14O2

**SMILES:** Oc1ccc2ccccc2c1-c1c(O)ccc2ccccc12

**Mol. weight [g/mol]:** 286.32

**CAS:** 602-09-5

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 227.14 | kJ/mol | Joback Method |
| hf | 21.51 | kJ/mol | Joback Method |
| hfus | 40.46 | kJ/mol | Joback Method |
| hvap | 95.30 | kJ/mol | Joback Method |
| log10ws | -6.78 | | Crippen Method |
| logp | 5.071 | | Crippen Method |
| mcvol | 217.960 | ml/mol | McGowan Method |
| pc | 3388.08 | kPa | Joback Method |
| tb | 919.52 | K | Joback Method |
| tc | 1197.83 | K | Joback Method |
| tf | 681.88 | K | Joback Method |
| vc | 0.716 | m3/kmol | Joback Method |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 644.77 | J/mol×K | 919.52 | Joback Method |
| cpg | 659.87 | J/mol×K | 965.90 | Joback Method |
| cpg | 675.51 | J/mol×K | 1012.29 | Joback Method |
| cpg | 692.07 | J/mol×K | 1058.67 | Joback Method |
| cpg | 709.94 | J/mol×K | 1105.06 | Joback Method |
| cpg | 729.53 | J/mol×K | 1151.44 | Joback Method |
| cpg | 751.22 | J/mol×K | 1197.83 | Joback Method |
| dvisc | 0.0000088 | Pa×s | 681.88 | Joback Method |
| dvisc | 0.0000052 | Pa×s | 721.49 | Joback Method |
| dvisc | 0.0000032 | Pa×s | 761.09 | Joback Method |
| dvisc | 0.0000021 | Pa×s | 800.70 | Joback Method |
| dvisc | 0.0000014 | Pa×s | 840.31 | Joback Method |
| dvisc | 0.0000010 | Pa×s | 879.91 | Joback Method |
| dvisc | 0.0000007 | Pa×s | 919.52 | 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=C602095&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 |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |

Latest version available from:

https://www.chemeo.com/cid/19-571-7/1-1-Bi-2-naphthol.pdf

Generated by Cheméo on 2024-05-05 04:51:00.749588254 +0000 UTC m=+17173909.670165566.

Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.