

Naphthalene, 1,2-diisopropyl

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| Inchi: | InChI=1S/C16H20/c1-11(2)14-10-9-13-7-5-6-8-15(13)16(14)12(3)4/h5-12H,1-4H3 |
| InchiKey: | IAUKWGFWINVWKS-UHFFFAOYSA-N |
| Formula: | C16H20 |
| SMILES: | CC(C)c1ccc2ccccc2c1C(C)C |
| Mol. weight [g/mol]: | 212.33 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 278.76 | kJ/mol | Joback Method |
| hf | 20.53 | kJ/mol | Joback Method |
| hfus | 20.43 | kJ/mol | Joback Method |
| hvap | 55.67 | kJ/mol | Joback Method |
| log10ws | -5.65 | | Crippen Method |
| logp | 5.087 | | Crippen Method |
| mcvol | 193.080 | ml/mol | McGowan Method |
| pc | 2081.22 | kPa | Joback Method |
| rinpol | 1676.00 | | NIST Webbook |
| ripol | 2177.00 | | NIST Webbook |
| ripol | 2200.00 | | NIST Webbook |
| tb | 620.22 | K | Joback Method |
| tc | 844.42 | K | Joback Method |
| tf | 324.24 | K | Joback Method |
| vc | 0.734 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 490.58 | J/molxK | 620.22 | Joback Method |
| cpg | 570.80 | J/molxK | 807.05 | Joback Method |
| cpg | 556.83 | J/molxK | 769.68 | Joback Method |
| cpg | 541.89 | J/molxK | 732.32 | Joback Method |
| cpg | 525.92 | J/molxK | 694.95 | Joback Method |
| cpg | 508.84 | J/molxK | 657.59 | Joback Method |
| cpg | 583.89 | J/molxK | 844.42 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0002140 | Paxs | 620.22 | Joback Method |
| dvisc | 0.0002647 | Paxs | 570.89 | Joback Method |
| dvisc | 0.0003409 | Paxs | 521.56 | Joback Method |
| dvisc | 0.0004627 | Paxs | 472.23 | Joback Method |
| dvisc | 0.0006746 | Paxs | 422.90 | Joback Method |
| dvisc | 0.0010863 | Paxs | 373.57 | Joback Method |
| dvisc | 0.0020223 | Paxs | 324.24 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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=R569347&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 |
| rinpol: | Non-polar retention indices |
| ripol: | Polar retention indices |
| 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/42-953-7/Naphthalene-1-2-diisopropyl.pdf>

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