# Benzacenaphthylene

**Inchi:** InChI=1S/C16H10/c1-2-8-13-12(7-1)14-9-3-5-11-6-4-10-15(13)16(11)14/h1-10H
**InchiKey:** GVEPBJHOBDJJJI-UHFFFAOYSA-N
**Formula:** C16H10
**SMILES:** c1ccc2c(c1)-c1cccc3cccc-2c13
**Mol. weight [g/mol]:** 202.25

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 491.18 | kJ/mol | Joback Method |
| hf | 367.77 | kJ/mol | Joback Method |
| hfus | 24.49 | kJ/mol | Joback Method |
| hvap | 59.09 | kJ/mol | Joback Method |
| log10ws | -6.73 | | Crippen Method |
| logp | 4.487 | | Crippen Method |
| mcvol | 158.460 | ml/mol | McGowan Method |
| pc | 3072.75 | kPa | Joback Method |
| rinpol | 349.30 | | NIST Webbook |
| rinpol | 349.30 | | NIST Webbook |
| tb | 651.36 | K | Joback Method |
| tc | 907.48 | K | Joback Method |
| tf | 425.92 | K | Joback Method |
| vc | 0.620 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 387.64 | J/mol×K | 651.36 | Joback Method |
| cpg | 400.96 | J/mol×K | 694.05 | Joback Method |
| cpg | 413.12 | J/mol×K | 736.73 | Joback Method |
| cpg | 424.36 | J/mol×K | 779.42 | Joback Method |
| cpg | 434.86 | J/mol×K | 822.10 | Joback Method |
| cpg | 444.86 | J/mol×K | 864.79 | Joback Method |
| cpg | 454.56 | J/mol×K | 907.48 | Joback Method |
| dvisc | 0.0020100 | Pa×s | 425.92 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0018191 | Pa×s | 463.49 | Joback Method |
| dvisc | 0.0016712 | Pa×s | 501.07 | Joback Method |
| dvisc | 0.0015536 | Pa×s | 538.64 | Joback Method |
| dvisc | 0.0014580 | Pa×s | 576.21 | Joback Method |
| dvisc | 0.0013791 | Pa×s | 613.79 | Joback Method |
| dvisc | 0.0013128 | Pa×s | 651.36 | Joback Method |

# 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=R312606&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 |
| **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 |