

# Naphtho[2,1-a]naphthacene

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

CAS:

InChI=1S/C26H16/c1-2-7-19-14-22-16-26-20(15-21(22)13-18(19)6-1)10-12-24-23-8-4-3-5

AFVMDRFUJONSCM-UHFFFAOYSA-N

C26H16

c1ccc2cc3cc4c(ccc5c6ccccc6ccc45)cc3cc2c1

328.41

220-82-6

## Physical Properties

| Property code | Value       | Unit    | Source         |
|---------------|-------------|---------|----------------|
| gf            | 775.18      | kJ/mol  | Joback Method  |
| hf            | 566.03      | kJ/mol  | Joback Method  |
| hfus          | 40.68       | kJ/mol  | Joback Method  |
| hvap          | 86.59       | kJ/mol  | Joback Method  |
| ie            | 7.22 ± 0.04 | eV      | NIST Webbook   |
| ie            | 6.83 ± 0.02 | eV      | NIST Webbook   |
| log10ws       | -10.49      |         | Crippen Method |
| logp          | 7.453       |         | Crippen Method |
| mcvol         | 256.140     | ml/mol  | McGowan Method |
| pc            | 2032.72     | kPa     | Joback Method  |
| rinpol        | 622.78      |         | NIST Webbook   |
| rinpol        | 622.70      |         | NIST Webbook   |
| tb            | 935.78      | K       | Joback Method  |
| tc            | 1209.93     | K       | Joback Method  |
| tf            | 622.78      | K       | Joback Method  |
| vc            | 0.994       | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 753.48 | J/mol×K | 935.78          | Joback Method |
| cpg           | 769.57 | J/mol×K | 981.47          | Joback Method |
| cpg           | 785.72 | J/mol×K | 1027.16         | Joback Method |
| cpg           | 802.30 | J/mol×K | 1072.85         | Joback Method |
| cpg           | 819.68 | J/mol×K | 1118.55         | Joback Method |

|       |           |         |         |               |
|-------|-----------|---------|---------|---------------|
| cpg   | 838.20    | J/mol×K | 1164.24 | Joback Method |
| cpg   | 858.23    | J/mol×K | 1209.93 | Joback Method |
| dvisc | 0.0031676 | Pa×s    | 622.78  | Joback Method |
| dvisc | 0.0027637 | Pa×s    | 674.95  | Joback Method |
| dvisc | 0.0024589 | Pa×s    | 727.11  | Joback Method |
| dvisc | 0.0022223 | Pa×s    | 779.28  | Joback Method |
| dvisc | 0.0020341 | Pa×s    | 831.45  | Joback Method |
| dvisc | 0.0018814 | Pa×s    | 883.61  | Joback Method |
| dvisc | 0.0017553 | Pa×s    | 935.78  | Joback Method |

## Sources

|                        |                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Crippen Method:</b> | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                         |
| <b>Joback Method:</b>  | <a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>                                     |
| <b>McGowan Method:</b> | <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>                     |
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C220826&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C220826&amp;Units=SI</a> |
| <b>Crippen Method:</b> | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>                                 |

## Legend

|                 |                                                 |
|-----------------|-------------------------------------------------|
| <b>cpg:</b>     | Ideal gas heat capacity                         |
| <b>dvisc:</b>   | Dynamic viscosity                               |
| <b>gf:</b>      | Standard Gibbs free energy of formation         |
| <b>hf:</b>      | Enthalpy of formation at standard conditions    |
| <b>hfus:</b>    | Enthalpy of fusion at standard conditions       |
| <b>hvap:</b>    | Enthalpy of vaporization at standard conditions |
| <b>ie:</b>      | Ionization energy                               |
| <b>log10ws:</b> | Log10 of Water solubility in mol/l              |
| <b>logp:</b>    | Octanol/Water partition coefficient             |
| <b>mcvol:</b>   | McGowan's characteristic volume                 |
| <b>pc:</b>      | Critical Pressure                               |
| <b>rinpol:</b>  | Non-polar retention indices                     |
| <b>tb:</b>      | Normal Boiling Point Temperature                |
| <b>tc:</b>      | Critical Temperature                            |
| <b>tf:</b>      | Normal melting (fusion) point                   |
| <b>vc:</b>      | Critical Volume                                 |

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