

# 1,2-bis-(2-Naphthyl)ethylene, cis

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C22H16/c1-3-7-21-15-17(11-13-19(21)5-1)9-10-18-12-14-20-6-2-4-8-22(20)16-2

JOYUAZDDXKUTiy-KTKRTIGZSA-N

C22H16

C(=Cc1ccc2ccccc2c1)c1ccc2ccccc2c1

280.36

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | 633.44  | kJ/mol  | Joback Method  |
| hf            | 452.07  | kJ/mol  | Joback Method  |
| hfus          | 34.28   | kJ/mol  | Joback Method  |
| hvap          | 73.68   | kJ/mol  | Joback Method  |
| log10ws       | -7.69   |         | Crippen Method |
| logp          | 6.163   |         | Crippen Method |
| mcvol         | 230.100 | ml/mol  | McGowan Method |
| pc            | 2151.31 | kPa     | Joback Method  |
| rinpol        | 2680.00 |         | NIST Webbook   |
| rinpol        | 2690.00 |         | NIST Webbook   |
| rinpol        | 2680.00 |         | NIST Webbook   |
| rinpol        | 2690.00 |         | NIST Webbook   |
| tb            | 808.20  | K       | Joback Method  |
| tc            | 1075.85 | K       | Joback Method  |
| tf            | 475.90  | K       | Joback Method  |
| vc            | 0.875   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 636.16 | J/mol×K | 808.20          | Joback Method |
| cpg           | 652.30 | J/mol×K | 852.81          | Joback Method |
| cpg           | 667.34 | J/mol×K | 897.42          | Joback Method |
| cpg           | 681.51 | J/mol×K | 942.03          | Joback Method |
| cpg           | 695.07 | J/mol×K | 986.63          | Joback Method |
| cpg           | 708.26 | J/mol×K | 1031.24         | Joback Method |

|       |           |         |         |               |
|-------|-----------|---------|---------|---------------|
| cpg   | 721.33    | J/mol×K | 1075.85 | Joback Method |
| dvisc | 0.0011407 | Pa×s    | 475.90  | Joback Method |
| dvisc | 0.0007813 | Pa×s    | 531.28  | Joback Method |
| dvisc | 0.0005748 | Pa×s    | 586.67  | Joback Method |
| dvisc | 0.0004459 | Pa×s    | 642.05  | Joback Method |
| dvisc | 0.0003601 | Pa×s    | 697.43  | Joback Method |
| dvisc | 0.0003001 | Pa×s    | 752.82  | Joback Method |
| dvisc | 0.0002565 | Pa×s    | 808.20  | 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=R525189&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R525189&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>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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