

1-Phenyl-2-(2-naphthyl)ethylene, trans

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|-----------------------------|---|
| Inchi: | InChI=1S/C18H14/c1-2-7-15(8-3-1)13-14-17-11-6-10-16-9-4-5-12-18(16)17/h1-14H/b14- |
| InchiKey: | QAVDMWIHZMXKFR-BUHFOSPRSA-N |
| Formula: | C18H14 |
| SMILES: | C(=Cc1cccc2ccccc12)c1cccc1 |
| Mol. weight [g/mol]: | 230.30 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 502.74 | kJ/mol | Joback Method |
| hf | 355.03 | kJ/mol | Joback Method |
| hfus | 27.29 | kJ/mol | Joback Method |
| hvap | 62.47 | kJ/mol | Joback Method |
| log10ws | -5.88 | | Crippen Method |
| logp | 5.010 | | Crippen Method |
| mcvol | 193.200 | ml/mol | McGowan Method |
| pc | 2495.01 | kPa | Joback Method |
| rinpol | 2410.00 | | NIST Webbook |
| rinpol | 2410.00 | | NIST Webbook |
| rinpol | 2410.00 | | NIST Webbook |
| tb | 692.72 | K | Joback Method |
| tc | 953.97 | K | Joback Method |
| tf | 385.60 | K | Joback Method |
| vc | 0.730 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 492.15 | J/molxK | 692.72 | Joback Method |
| cpg | 509.00 | J/molxK | 736.26 | Joback Method |
| cpg | 524.40 | J/molxK | 779.80 | Joback Method |
| cpg | 538.53 | J/molxK | 823.34 | Joback Method |
| cpg | 551.57 | J/molxK | 866.89 | Joback Method |
| cpg | 563.69 | J/molxK | 910.43 | Joback Method |
| cpg | 575.08 | J/molxK | 953.97 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0013402 | Paxs | 385.60 | Joback Method |
| dvisc | 0.0007995 | Paxs | 436.79 | Joback Method |
| dvisc | 0.0005316 | Paxs | 487.97 | Joback Method |
| dvisc | 0.0003819 | Paxs | 539.16 | Joback Method |
| dvisc | 0.0002906 | Paxs | 590.35 | Joback Method |
| dvisc | 0.0002309 | Paxs | 641.53 | Joback Method |
| dvisc | 0.0001899 | Paxs | 692.72 | 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=R525263&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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 |
| rinpol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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