

Acenaphtho[1,2,3-cde]pyrene

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|-----------------------------|---|
| Inchi: | InChI=1S/C24H12/c1-3-13-7-8-15-10-12-19-17-6-2-4-14-9-11-18-16(5-1)20(13)22(15)24 |
| InchiKey: | AUTALQTUZAWXTL-UHFFFAOYSA-N |
| Formula: | C24H12 |
| SMILES: | <chem>c1cc2c3c(c1)ccc1c4cccc5ccc6ccc-2c(c13)c6c54</chem> |
| Mol. weight [g/mol]: | 300.35 |
| CAS: | 75449-91-1 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 838.08 | kJ/mol | Joback Method |
| hf | 650.53 | kJ/mol | Joback Method |
| hfus | 41.06 | kJ/mol | Joback Method |
| hvap | 82.54 | kJ/mol | Joback Method |
| log10ws | -10.76 | | Crippen Method |
| logp | 6.871 | | Crippen Method |
| mcvol | 221.400 | ml/mol | McGowan Method |
| pc | 2370.28 | kPa | Joback Method |
| tb | 890.88 | K | Joback Method |
| tc | 1154.51 | K | Joback Method |
| tf | 664.30 | K | Joback Method |
| vc | 0.893 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 625.52 | J/molxK | 890.88 | Joback Method |
| cpg | 639.68 | J/molxK | 934.82 | Joback Method |
| cpg | 654.66 | J/molxK | 978.76 | Joback Method |
| cpg | 670.86 | J/molxK | 1022.70 | Joback Method |
| cpg | 688.72 | J/molxK | 1066.64 | Joback Method |
| cpg | 708.65 | J/molxK | 1110.57 | Joback Method |
| cpg | 731.08 | J/molxK | 1154.51 | Joback Method |
| dvisc | 0.0266312 | Paxs | 664.30 | Joback Method |
| dvisc | 0.0275768 | Paxs | 702.06 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0284544 | Paxs | 739.83 | Joback Method |
| dvisc | 0.0292708 | Paxs | 777.59 | Joback Method |
| dvisc | 0.0300317 | Paxs | 815.35 | Joback Method |
| dvisc | 0.0307426 | Paxs | 853.12 | Joback Method |
| dvisc | 0.0314079 | Paxs | 890.88 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C75449911&Units=SI |
| 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 |

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 |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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