# Indeno[5,6,7,1-pqra]perylene

**Inchi:** InChI=1S/C24H12/c1-3-13-7-8-17-12-16-10-9-15-11-14-4-2-6-19-18(5-1)21(13)23(17)24(
**InchiKey:** WXJAUBFSNLBGKK-UHFFFAOYSA-N
**Formula:** C24H12
**SMILES:** C1=Cc2cc3ccc4cccc5c6cccc7cc1c2c(c76)c3c45
**Mol. weight [g/mol]:** 300.35
**CAS:** 96915-18-3

## 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 | -10.18 | | Crippen Method |
| logp | 6.812 | | 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 | m3/kmol | Joback Method |

## Temperature Dependent Properties

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

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0284544 | Pa×s | 739.83 | Joback Method |
| dvisc | 0.0292708 | Pa×s | 777.59 | Joback Method |
| dvisc | 0.0300317 | Pa×s | 815.35 | Joback Method |
| dvisc | 0.0307426 | Pa×s | 853.12 | Joback Method |
| dvisc | 0.0314079 | Pa×s | 890.88 | 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=C96915183&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **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 |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |

Latest version available from:
https://www.chemeo.com/cid/17-168-7/Indeno-5-6-7-1-pqra-perylene.pdf
Generated by Cheméo on 2024-04-28 19:31:21.416115157 +0000 UTC m=+16621930.336692472.
Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.