

Dibenzo[de,ij]naphtho[7,8,1,2,3-pqrst]pentaphene

| | |
|-----------------------------|---|
| Inchi: | InChI=1S/C32H16/c1-5-17-6-2-12-24-26-16-20-14-13-18-7-3-9-21-22-10-4-8-19-15-25(2 |
| InchiKey: | FDMKQSFJVMGSCC-UHFFFAOYSA-N |
| Formula: | C32H16 |
| SMILES: | c1cc2cccc3c4cc5ccc6cccc7c8cccc9cc(c(c1)c23)c4c(c98)c5c67 |
| Mol. weight [g/mol]: | 400.47 |
| CAS: | 120836-00-2 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 1099.48 | kJ/mol | Joback Method |
| hf | 844.61 | kJ/mol | Joback Method |
| hfus | 55.04 | kJ/mol | Joback Method |
| hvap | 104.95 | kJ/mol | Joback Method |
| log10ws | -14.15 | | Crippen Method |
| logp | 9.226 | | Crippen Method |
| mvol | 295.200 | ml/mol | McGowan Method |
| pc | 1792.42 | kPa | Joback Method |
| tb | 1121.84 | K | Joback Method |
| tc | 1399.15 | K | Joback Method |
| tf | 844.90 | K | Joback Method |
| vc | 1.185 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 953.39 | J/molxK | 1121.84 | Joback Method |
| cpg | 984.02 | J/molxK | 1168.06 | Joback Method |
| cpg | 1018.68 | J/molxK | 1214.28 | Joback Method |
| cpg | 1057.97 | J/molxK | 1260.50 | Joback Method |
| cpg | 1102.53 | J/molxK | 1306.71 | Joback Method |
| cpg | 1152.95 | J/molxK | 1352.93 | Joback Method |
| cpg | 1209.85 | J/molxK | 1399.15 | Joback Method |
| dvisc | 0.1009143 | Paxs | 844.90 | Joback Method |
| dvisc | 0.1032630 | Paxs | 891.06 | Joback Method |

| | | | | |
|-------|-----------|------|---------|---------------|
| dvisc | 0.1054271 | Paxs | 937.21 | Joback Method |
| dvisc | 0.1074272 | Paxs | 983.37 | Joback Method |
| dvisc | 0.1092809 | Paxs | 1029.53 | Joback Method |
| dvisc | 0.1110035 | Paxs | 1075.68 | Joback Method |
| dvisc | 0.1126083 | Paxs | 1121.84 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C120836002&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 |

Latest version available from:

<https://www.chemeo.com/cid/77-210-3/Dibenzo-de-ij-naphtho-7-8-1-2-3-pqrst-pentaphene.pdf>

Generated by Cheméo on 2024-04-26 19:58:09.919740323 +0000 UTC m=+16450738.840317644.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.