# 10b,10c-Dihydro-10b,10c-dipropyl-trans-pyrene

**Inchi:** InChI=1S/C22H24/c1-3-15-21-17-7-5-8-18(21)12-14-20-10-6-9-19(13-11-17)22(20,21)16
**InchiKey:** CNURFFWIKKDBJB-HZCBDIJESA-N
**Formula:** C22H24
**SMILES:** CCCC12C3=CC=CC1=CC=C1C=CC=C(C=C3)C12CCC
**Mol. weight [g/mol]:** 288.43

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 504.60 | kJ/mol | Joback Method |
| hf | 198.89 | kJ/mol | Joback Method |
| hfus | 29.14 | kJ/mol | Joback Method |
| hvap | 67.91 | kJ/mol | Joback Method |
| log10ws | -7.10 | | Crippen Method |
| logp | 5.988 | | Crippen Method |
| mcvol | 247.300 | ml/mol | McGowan Method |
| pc | 1792.42 | kPa | Joback Method |
| rinpol | 422.70 | | NIST Webbook |
| tb | 770.66 | K | Joback Method |
| tc | 1009.51 | K | Joback Method |
| tf | 507.06 | K | Joback Method |
| vc | 0.964 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 728.07 | J/mol×K | 770.66 | Joback Method |
| cpg | 747.97 | J/mol×K | 810.47 | Joback Method |
| cpg | 767.90 | J/mol×K | 850.28 | Joback Method |
| cpg | 788.30 | J/mol×K | 890.09 | Joback Method |
| cpg | 809.58 | J/mol×K | 929.89 | Joback Method |
| cpg | 832.16 | J/mol×K | 969.70 | Joback Method |
| cpg | 856.46 | J/mol×K | 1009.51 | 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=R532439&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

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|---|---|
| **cpg:** | Ideal gas heat capacity |
| **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 |