

7-Butylbenz[a]anthracene

| | |
|-----------------------------|---|
| Inchi: | InChI=1S/C22H20/c1-2-3-10-20-19-12-7-5-9-17(19)15-22-18-11-6-4-8-16(18)13-14-21(20) |
| InchiKey: | BIOVWIBRVOHDTA-UHFFFAOYSA-N |
| Formula: | C22H20 |
| SMILES: | CCCCc1c2ccccc2cc2c1ccc1ccccc12 |
| Mol. weight [g/mol]: | 284.39 |
| CAS: | 18868-65-0 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 537.83 | kJ/mol | Joback Method |
| hf | 277.92 | kJ/mol | Joback Method |
| hfus | 36.67 | kJ/mol | Joback Method |
| hvap | 73.75 | kJ/mol | Joback Method |
| log10ws | -8.52 | | Crippen Method |
| logp | 6.489 | | Crippen Method |
| mvol | 238.700 | ml/mol | McGowan Method |
| pc | 1875.65 | kPa | Joback Method |
| tb | 801.32 | K | Joback Method |
| tc | 1043.67 | K | Joback Method |
| tf | 499.78 | K | Joback Method |
| vc | 0.925 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 681.57 | J/molxK | 801.32 | Joback Method |
| cpg | 697.89 | J/molxK | 841.71 | Joback Method |
| cpg | 713.25 | J/molxK | 882.10 | Joback Method |
| cpg | 727.85 | J/molxK | 922.50 | Joback Method |
| cpg | 741.85 | J/molxK | 962.89 | Joback Method |
| cpg | 755.42 | J/molxK | 1003.28 | Joback Method |
| cpg | 768.76 | J/molxK | 1043.67 | Joback Method |
| dvisc | 0.0015546 | Paxs | 499.78 | Joback Method |
| dvisc | 0.0012104 | Paxs | 550.04 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0009827 | Paxs | 600.29 | Joback Method |
| dvisc | 0.0008240 | Paxs | 650.55 | Joback Method |
| dvisc | 0.0007086 | Paxs | 700.81 | Joback Method |
| dvisc | 0.0006218 | Paxs | 751.06 | Joback Method |
| dvisc | 0.0005546 | Paxs | 801.32 | 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=C18868650&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.cheméo.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 |
| mccvol: | 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.cheméo.com/cid/72-480-9/7-Butylbenz-a-anthracene.pdf>

Generated by Cheméo on 2024-04-18 18:20:21.922571065 +0000 UTC m=+15753670.843148377.

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