

7-Docosene

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|-----------------------------|---|
| Inchi: | InChI=1S/C22H44/c1-3-5-7-9-11-13-15-17-19-21-22-20-18-16-14-12-10-8-6-4-2/h13,15H |
| InchiKey: | SAHHVBUNBUSDIX-FYWRMAATSA-N |
| Formula: | C22H44 |
| SMILES: | CCCCCCC=CCCCCCCCCCCCCCCC |
| Mol. weight [g/mol]: | 308.58 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 214.58 | kJ/mol | Joback Method |
| hf | -380.19 | kJ/mol | Joback Method |
| hfus | 52.94 | kJ/mol | Joback Method |
| hvap | 64.52 | kJ/mol | Joback Method |
| log10ws | -8.89 | | Crippen Method |
| logp | 8.604 | | Crippen Method |
| mcvol | 316.540 | ml/mol | McGowan Method |
| pc | 930.64 | kPa | Joback Method |
| tb | 706.92 | K | Joback Method |
| tc | 873.81 | K | Joback Method |
| tf | 332.62 | K | Joback Method |
| vc | 1.248 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 940.23 | J/molxK | 706.92 | Joback Method |
| cpg | 1037.94 | J/molxK | 845.99 | Joback Method |
| cpg | 1020.10 | J/molxK | 818.18 | Joback Method |
| cpg | 1001.45 | J/molxK | 790.36 | Joback Method |
| cpg | 981.95 | J/molxK | 762.55 | Joback Method |
| cpg | 961.55 | J/molxK | 734.73 | Joback Method |
| cpg | 1055.00 | J/molxK | 873.81 | Joback Method |
| dvisc | 0.0000652 | Paxs | 706.92 | Joback Method |
| dvisc | 0.0000900 | Paxs | 644.54 | Joback Method |
| dvisc | 0.0001333 | Paxs | 582.15 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0002167 | Paxs | 519.77 | Joback Method |
| dvisc | 0.0004024 | Paxs | 457.39 | Joback Method |
| dvisc | 0.0009083 | Paxs | 395.00 | Joback Method |
| dvisc | 0.0027831 | Paxs | 332.62 | 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=R282025&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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 |

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