

(E)-2-Pentadecene

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|-----------------------------|---|
| Other names: | trans-2-Pentadecene 2-pentadecene (E) |
| Inchi: | InChI=1S/C15H30/c1-3-5-7-9-11-13-15-14-12-10-8-6-4-2/h3,5H,4,6-15H2,1-2H3/b5-3+ |
| InchiKey: | PIKNPBDDTPJRGQ-HWKANZROSA-N |
| Formula: | C15H30 |
| SMILES: | CC=CCCCCCCCCCCCC |
| Mol. weight [g/mol]: | 210.40 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 155.64 | kJ/mol | Joback Method |
| hf | -235.71 | kJ/mol | Joback Method |
| hfus | 34.81 | kJ/mol | Joback Method |
| hvap | 48.94 | kJ/mol | Joback Method |
| log10ws | -5.95 | | Crippen Method |
| logp | 5.873 | | Crippen Method |
| mcvol | 217.910 | ml/mol | McGowan Method |
| pc | 1472.49 | kPa | Joback Method |
| rinpol | 1498.30 | | NIST Webbook |
| rinpol | 1498.80 | | NIST Webbook |
| rinpol | 1500.00 | | NIST Webbook |
| rinpol | 1498.30 | | NIST Webbook |
| rinpol | 1498.00 | | NIST Webbook |
| rinpol | 1507.00 | | NIST Webbook |
| rinpol | 1501.00 | | NIST Webbook |
| rinpol | 1497.00 | | NIST Webbook |
| ripol | 1537.40 | | NIST Webbook |
| ripol | 1537.00 | | NIST Webbook |
| tb | 546.76 | K | Joback Method |
| tc | 711.80 | K | Joback Method |
| tf | 253.73 | K | Joback Method |
| vc | 0.856 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 540.45 | J/molxK | 546.76 | Joback Method |
| cpg | 625.10 | J/molxK | 684.29 | Joback Method |
| cpg | 609.60 | J/molxK | 656.78 | Joback Method |
| cpg | 593.41 | J/molxK | 629.28 | Joback Method |
| cpg | 576.50 | J/molxK | 601.77 | Joback Method |
| cpg | 558.86 | J/molxK | 574.27 | Joback Method |
| cpg | 639.95 | J/molxK | 711.80 | Joback Method |
| dvisc | 0.0001425 | Paxs | 546.76 | Joback Method |
| dvisc | 0.0001932 | Paxs | 497.92 | Joback Method |
| dvisc | 0.0002801 | Paxs | 449.08 | Joback Method |
| dvisc | 0.0004444 | Paxs | 400.25 | Joback Method |
| dvisc | 0.0008016 | Paxs | 351.41 | Joback Method |
| dvisc | 0.0017495 | Paxs | 302.57 | Joback Method |
| dvisc | 0.0051562 | Paxs | 253.73 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R97808&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 |
| rinpol: | Non-polar retention indices |
| ripol: | Polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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