

5-tetradecenol, E

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| Other names: | 5-Tetradecen-1-ol, (E) (E)5-Tetradecen-1-ol |
| Inchi: | InChI=1S/C14H28O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15/h9-10,15H,2-8,11-14H2,1H3/ |
| InchiKey: | ZYTGEAXLNDKCTI-MDZDMXLPSA-N |
| Formula: | C14H28O |
| SMILES: | CCCCCCCCC=CCCCCO |
| Mol. weight [g/mol]: | 212.37 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 10.40 | kJ/mol | Joback Method |
| hf | -367.30 | kJ/mol | Joback Method |
| hfus | 36.31 | kJ/mol | Joback Method |
| hvap | 63.39 | kJ/mol | Joback Method |
| log10ws | -4.80 | | Crippen Method |
| logp | 4.456 | | Crippen Method |
| mcvol | 209.690 | ml/mol | McGowan Method |
| pc | 1710.36 | kPa | Joback Method |
| rinpol | 1665.00 | | NIST Webbook |
| ripol | 2207.00 | | NIST Webbook |
| tb | 616.06 | K | Joback Method |
| tc | 778.82 | K | Joback Method |
| tf | 303.28 | K | Joback Method |
| vc | 0.819 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 562.60 | J/molxK | 616.06 | Joback Method |
| cpg | 578.00 | J/molxK | 643.19 | Joback Method |
| cpg | 592.76 | J/molxK | 670.31 | Joback Method |
| cpg | 606.89 | J/molxK | 697.44 | Joback Method |
| cpg | 620.41 | J/molxK | 724.57 | Joback Method |
| cpg | 633.37 | J/molxK | 751.70 | Joback Method |

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|-------|-----------|---------|--------|---------------|
| cpg | 645.78 | J/molxK | 778.82 | Joback Method |
| dvisc | 0.0131572 | Paxs | 303.28 | Joback Method |
| dvisc | 0.0026357 | Paxs | 355.41 | Joback Method |
| dvisc | 0.0007966 | Paxs | 407.54 | Joback Method |
| dvisc | 0.0003158 | Paxs | 459.67 | Joback Method |
| dvisc | 0.0001512 | Paxs | 511.80 | Joback Method |
| dvisc | 0.0000829 | Paxs | 563.93 | Joback Method |
| dvisc | 0.0000504 | Paxs | 616.06 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R77927&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 |

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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