

2-Heptyn-1-ol

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| Other names: | hept-2-yn-1-ol |
| Inchi: | InChI=1S/C7H12O/c1-2-3-4-5-6-7-8/h8H,2-4,7H2,1H3 |
| InchiKey: | OGDYROFIIXDTQK-UHFFFAOYSA-N |
| Formula: | C7H12O |
| SMILES: | CCCCCC#CCO |
| Mol. weight [g/mol]: | 112.17 |
| CAS: | 1002-36-4 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 74.04 | kJ/mol | Joback Method |
| hf | -67.74 | kJ/mol | Joback Method |
| hfus | 21.10 | kJ/mol | Joback Method |
| hvap | 50.01 | kJ/mol | Joback Method |
| log10ws | -1.81 | | Crippen Method |
| logp | 1.172 | | Crippen Method |
| mcvol | 106.760 | ml/mol | McGowan Method |
| pc | 3727.11 | kPa | Joback Method |
| tb | 460.74 | K | Joback Method |
| tc | 641.90 | K | Joback Method |
| tf | 335.57 | K | Joback Method |
| vc | 0.408 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 217.45 | J/mol×K | 460.74 | Joback Method |
| cpg | 226.91 | J/mol×K | 490.93 | Joback Method |
| cpg | 236.00 | J/mol×K | 521.13 | Joback Method |
| cpg | 244.72 | J/mol×K | 551.32 | Joback Method |
| cpg | 253.09 | J/mol×K | 581.52 | Joback Method |
| cpg | 261.11 | J/mol×K | 611.71 | Joback Method |
| cpg | 268.80 | J/mol×K | 641.90 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.cheméo.com/doc/models/crippen_log10ws |
| 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=C1002364&Units=SI |

Legend

| | |
|-----------------|---|
| 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 |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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