# 1-(2-HYDROXYETHYL)PYRROLIDINE

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| **Other names:** | 1-Pyrrolidineethanol |
| | 2-(1-pyrrolidino)ethanol |
| | 2-(1-pyrrolidinyl)ethanol |
| | 2-pyrrolidin-1-ylethanol |
| | HEP |
| | N-(2-Hydroxethyl)pyrrolidine |
| | N-(2-hydroxyethyl)pyrrolidine |
| | Pyrrolidinoethanol |
| **Inchi:** | InChI=1S/C6H13NO/c8-6-5-7-3-1-2-4-7/h8H,1-6H2 |
| **InchiKey:** | XBRDBODLCHKXHI-UHFFFAOYSA-N |
| **Formula:** | C6H13NO |
| **SMILES:** | OCCN1CCCC1 |
| **Mol. weight [g/mol]:** | 115.18 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hvap | 61.43 | kJ/mol | Cheméo Relay (1.0) |
| logp | 0.075 | | Crippen Method |
| mcvol | 100.390 | ml/mol | McGowan Method |
| ripol | 1552.00 | | NIST Webbook |
| ripol | 1564.00 | | NIST Webbook |
| ripol | 1590.00 | | NIST Webbook |
| ripol | 1552.00 | | NIST Webbook |
| tb | 458.35 | K | Cheméo Relay (1.0) |
| tf | 260.68 | K | Cheméo Relay (1.0) |

## Pressure Dependent Properties

| Property code | Value | Unit | Pressure [kPa] | Source |
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|---|---|---|---|---|
| tbp | 360.60 | K | 2.80 | Vapour-liquid equilibrium study of tertiary amines, single and in blend with 3-(methylamino)propylamine, for post-combustion CO2 capture |
| tbp | 372.20 | K | 4.80 | Vapour-liquid equilibrium study of tertiary amines, single and in blend with 3-(methylamino)propylamine, for post-combustion CO2 capture |
| tbp | 388.80 | K | 9.80 | Vapour-liquid equilibrium study of tertiary amines, single and in blend with 3-(methylamino)propylamine, for post-combustion CO2 capture |
| tbp | 405.50 | K | 19.80 | Vapour-liquid equilibrium study of tertiary amines, single and in blend with 3-(methylamino)propylamine, for post-combustion CO2 capture |
| tbp | 417.00 | K | 29.80 | Vapour-liquid equilibrium study of tertiary amines, single and in blend with 3-(methylamino)propylamine, for post-combustion CO2 capture |
| tbp | 426.10 | K | 39.80 | Vapour-liquid equilibrium study of tertiary amines, single and in blend with 3-(methylamino)propylamine, for post-combustion CO2 capture |
| tbp | 432.60 | K | 49.80 | Vapour-liquid equilibrium study of tertiary amines, single and in blend with 3-(methylamino)propylamine, for post-combustion CO2 capture |

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| tbp | 438.10 | K | 59.80 | Vapour-liquid equilibrium study of tertiary amines, single and in blend with 3-(methylamino)propylamine, for post-combustion CO2 capture |
| tbp | 442.60 | K | 69.80 | Vapour-liquid equilibrium study of tertiary amines, single and in blend with 3-(methylamino)propylamine, for post-combustion CO2 capture |
| tbp | 446.90 | K | 79.80 | Vapour-liquid equilibrium study of tertiary amines, single and in blend with 3-(methylamino)propylamine, for post-combustion CO2 capture |
| tbp | 449.80 | K | 89.80 | Vapour-liquid equilibrium study of tertiary amines, single and in blend with 3-(methylamino)propylamine, for post-combustion CO2 capture |
| tbrp | 353.20 | K | 1.70 | NIST Webbook |

# Sources

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|---|---|
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Cheméo Relay (1.0):** | |
| **Cheméo Relay (1.0, beta):** | |
| **Vapour-liquid equilibrium study of tertiary amines, single and in blend with 3-(methylamino)propylamine, for post-combustion CO2 capture:** | https://www.doi.org/10.1016/j.jct.2019.06.017 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C2955886&Units=SI |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |

# Legend

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| **hvap:** | Enthalpy of vaporization at standard conditions |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **ripol:** | Polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tbp:** | Boiling point at given pressure |
| **tbrp:** | Boiling point at reduced pressure |
| **tf:** | Normal melting (fusion) point |