

Methacrylamide, N-pentyl-

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| Inchi: | InChI=1S/C9H17NO/c1-4-5-6-7-10-9(11)8(2)3/h2,4-7H2,1,3H3,(H,10,11) |
| InchiKey: | XXLCLVOQLNRAGY-UHFFFAOYSA-N |
| Formula: | C9H17NO |
| SMILES: | C=C(C)C(O)=NCCCCC |
| Mol. weight [g/mol]: | 155.24 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|--------|----------------|
| hf | -193.25 | kJ/mol | Joback Method |
| hvap | 55.11 | kJ/mol | Joback Method |
| log10ws | -2.43 | | Crippen Method |
| logp | 2.709 | | Crippen Method |
| mcvol | 144.920 | ml/mol | McGowan Method |
| pc | 2395.87 | kPa | Joback Method |
| rinpol | 1315.00 | | NIST Webbook |
| rinpol | 1315.00 | | NIST Webbook |
| tb | 570.62 | K | Joback Method |
| tc | 753.72 | K | Joback Method |

Sources

| | |
|------------------------|---|
| 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 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U407967&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |

Legend

| | |
|--------------|---|
| hf: | Enthalpy of formation 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 |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |

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