

Acetaldehyde, diethylhydrazone

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|-----------------------------|---|
| Other names: | Ethanal, diethylhydrazone |
| Inchi: | InChI=1S/C6H14N2/c1-4-7-8(5-2)6-3/h4H,5-6H2,1-3H3 |
| InchiKey: | XUPJINYFRLDNCY-UHFFFAOYSA-N |
| Formula: | C6H14N2 |
| SMILES: | CC=NN(CC)CC |
| Mol. weight [g/mol]: | 114.19 |
| CAS: | 7422-91-5 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|--------|----------------|
| hf | -17.42 | kJ/mol | Joback Method |
| hvap | 34.31 | kJ/mol | Joback Method |
| log10ws | -1.06 | | Crippen Method |
| logp | 1.334 | | Crippen Method |
| mcvol | 111.060 | ml/mol | McGowan Method |
| pc | 2767.17 | kPa | Joback Method |
| rinpol | 820.00 | | NIST Webbook |
| rinpol | 836.10 | | NIST Webbook |
| rinpol | 830.00 | | NIST Webbook |
| rinpol | 820.00 | | NIST Webbook |
| tb | 425.80 | K | Joback Method |
| tc | 611.49 | K | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C7422915&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

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|----------------------------|---|
| hf: | Enthalpy of formation at standard conditions |
| h_{vap}: | Enthalpy of vaporization at standard conditions |
| log₁₀ws: | Log ₁₀ of Water solubility in mol/l |
| log_p: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| r_{inpol}: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |

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