

Acetamide, N-decyl-

Inchi: InChI=1S/C12H25NO/c1-3-4-5-6-7-8-9-10-11-13-12(2)14/h3-11H2,1-2H3,(H,13,14)
InchiKey: DXFXMYYJKFIEGI-UHFFFAOYSA-N
Formula: C12H25NO
SMILES: CCCCCCCCCCN=C(C)O
Mol. weight [g/mol]: 199.33

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|--------|----------------|
| hf | -370.81 | kJ/mol | Joback Method |
| hvap | 62.38 | kJ/mol | Joback Method |
| log10ws | -3.83 | | Crippen Method |
| logp | 4.104 | | Crippen Method |
| mcvol | 191.490 | ml/mol | McGowan Method |
| pc | 1768.38 | kPa | Joback Method |
| rinpol | 1709.00 | | NIST Webbook |
| tb | 642.70 | K | Joback Method |
| tc | 816.74 | K | Joback Method |

Sources

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
McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=U406539&Units=SI>

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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