

Methacrylamide, N-tetradecyl-

Inchi: InChI=1S/C18H35NO/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-19-18(20)17(2)3/h2,4-16H2,
InchiKey: BPEZHABUVGDGNE-UHFFFAOYSA-N
Formula: C18H35NO
SMILES: C=C(C)C(O)=NCCCCCCCCCCCCCCC
Mol. weight [g/mol]: 281.48

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|--------|----------------|
| hf | -379.01 | kJ/mol | Joback Method |
| hvap | 75.14 | kJ/mol | Joback Method |
| log10ws | -6.19 | | Crippen Method |
| logp | 6.220 | | Crippen Method |
| mcvol | 271.730 | ml/mol | McGowan Method |
| pc | 1183.34 | kPa | Joback Method |
| rinsol | 2229.00 | | NIST Webbook |
| rinsol | 2229.00 | | NIST Webbook |
| tb | 776.54 | K | Joback Method |
| tc | 957.17 | K | Joback Method |

Sources

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=U407970&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307I>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method

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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