

# Octamylamine

|                             |   |
|-----------------------------|---|
| <b>Inchi:</b>               | InChI=1S/C13H29N/c1-11(2)7-6-8-13(5)14-10-9-12(3)4/h11-14H,6-10H2,1-5H3 |
| <b>InchiKey:</b>            | RRWTWWBIHKIYTH-UHFFFAOYSA-N   |
| <b>Formula:</b>             | C13H29N   |
| <b>SMILES:</b>              | CC(C)CCCC(C)NCCC(C)C  |
| <b>Mol. weight [g/mol]:</b> | 199.38  |
| <b>CAS:</b>                 | 502-59-0  |

## Physical Properties

| Property code | Value   | Unit                 | Source         |
|---------------|---------|----------------------|----------------|
| gf            | 140.65  | kJ/mol               | Joback Method  |
| hf            | -274.02 | kJ/mol               | Joback Method  |
| hfus          | 23.96   | kJ/mol               | Joback Method  |
| hvap          | 49.80   | kJ/mol               | Joback Method  |
| log10ws       | -4.08   |                      | Crippen Method |
| logp          | 3.837   |                      | Crippen Method |
| mcvol         | 204.010 | ml/mol               | McGowan Method |
| pc            | 1694.90 | kPa                  | Joback Method  |
| rinpol        | 1303.00 |                      | NIST Webbook   |
| rinpol        | 1303.00 |                      | NIST Webbook   |
| rinpol        | 1281.00 |                      | NIST Webbook   |
| rinpol        | 1303.00 |                      | NIST Webbook   |
| rinpol        | 1281.00 |                      | NIST Webbook   |
| ripol         | 1373.00 |                      | NIST Webbook   |
| ripol         | 1373.00 |                      | NIST Webbook   |
| ripol         | 1373.00 |                      | NIST Webbook   |
| tb            | 545.69  | K                    | Joback Method  |
| tc            | 718.22  | K                    | Joback Method  |
| tf            | 243.93  | K                    | Joback Method  |
| vc            | 0.780   | m <sup>3</sup> /kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 516.06 | J/mol×K | 545.69          | Joback Method |

|     |        |         |        |               |
|-----|--------|---------|--------|---------------|
| cpg | 534.62 | J/mol×K | 574.45 | Joback Method |
| cpg | 552.40 | J/mol×K | 603.20 | Joback Method |
| cpg | 569.40 | J/mol×K | 631.96 | Joback Method |
| cpg | 585.66 | J/mol×K | 660.71 | Joback Method |
| cpg | 601.19 | J/mol×K | 689.47 | Joback Method |
| cpg | 616.01 | J/mol×K | 718.22 | Joback Method |

## Sources

|                        |   |
|------------------------|---|
| <b>McGowan Method:</b> | <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>                     |
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C502590&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C502590&amp;Units=SI</a> |
| <b>Crippen Method:</b> | <a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>                                 |
| <b>Crippen Method:</b> | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                         |
| <b>Joback Method:</b>  | <a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>                                     |

## Legend

|                 |   |
|-----------------|---|
| <b>cpg:</b>     | Ideal gas heat capacity                         |
| <b>gf:</b>      | Standard Gibbs free energy of formation         |
| <b>hf:</b>      | Enthalpy of formation at standard conditions    |
| <b>hfus:</b>    | Enthalpy of fusion at standard conditions       |
| <b>hvap:</b>    | Enthalpy of vaporization at standard conditions |
| <b>log10ws:</b> | Log10 of Water solubility in mol/l              |
| <b>logp:</b>    | Octanol/Water partition coefficient             |
| <b>mcvol:</b>   | McGowan's characteristic volume                 |
| <b>pc:</b>      | Critical Pressure                               |
| <b>rinpol:</b>  | Non-polar retention indices                     |
| <b>ripol:</b>   | Polar retention indices                         |
| <b>tb:</b>      | Normal Boiling Point Temperature                |
| <b>tc:</b>      | Critical Temperature                            |
| <b>tf:</b>      | Normal melting (fusion) point                   |
| <b>vc:</b>      | Critical Volume                                 |

Latest version available from:

<https://www.chemeo.com/cid/74-749-9/Octamylamine.pdf>

Generated by Cheméo on 2024-05-01 08:44:12.687407044 +0000 UTC m=+16842301.607984371.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.