

# Oleic acid, hydrazide

|                             |  |
|-----------------------------|--|
| <b>Inchi:</b>               | InChI=1S/C18H36N2O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18(21)20-19/h9-10H |
| <b>InchiKey:</b>            | GEYKZYNEWQWLTF-KTKRTIGZSA-N  |
| <b>Formula:</b>             | C18H36N2O  |
| <b>SMILES:</b>              | CCCCCCCC=CCCCCCCC(=O)NN  |
| <b>Mol. weight [g/mol]:</b> | 296.49   |
| <b>CAS:</b>                 | 2619-87-6  |

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | 207.82  | kJ/mol  | Joback Method  |
| hf            | -322.95 | kJ/mol  | Joback Method  |
| hfus          | 54.47   | kJ/mol  | Joback Method  |
| hvap          | 79.44   | kJ/mol  | Joback Method  |
| log10ws       | -6.60   |         | Crippen Method |
| logp          | 5.014   |         | Crippen Method |
| mcvol         | 281.710 | ml/mol  | McGowan Method |
| pc            | 1311.80 | kPa     | Joback Method  |
| tb            | 791.97  | K       | Joback Method  |
| tc            | 978.49  | K       | Joback Method  |
| tf            | 473.39  | K       | Joback Method  |
| vc            | 1.093   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 878.11 | J/molxK | 791.97          | Joback Method |
| cpg           | 895.56 | J/molxK | 823.06          | Joback Method |
| cpg           | 912.12 | J/molxK | 854.14          | Joback Method |
| cpg           | 927.83 | J/molxK | 885.23          | Joback Method |
| cpg           | 942.74 | J/molxK | 916.32          | Joback Method |
| cpg           | 956.90 | J/molxK | 947.41          | Joback Method |
| cpg           | 970.35 | J/molxK | 978.49          | Joback Method |

# Sources

|                        |   |
|------------------------|---|
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2619876&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2619876&amp;Units=SI</a> |
| <b>Crippen Method:</b> | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>                                       |
| <b>McGowan Method:</b> | <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>mccvol:</b>  | McGowan's characteristic volume                 |
| <b>pc:</b>      | Critical Pressure                               |
| <b>tb:</b>      | Normal Boiling Point Temperature                |
| <b>tc:</b>      | Critical Temperature                            |
| <b>tf:</b>      | Normal melting (fusion) point                   |
| <b>vc:</b>      | Critical Volume                                 |

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