

# N,N-Dimethylamino-2,4-pentadiene-5-al

|                             |  |
|-----------------------------|--|
| <b>Inchi:</b>               | InChI=1S/C7H11NO/c1-8(2)6-4-3-5-7-9/h3-7H,1-2H3/b5-3+,6-4+ |
| <b>InchiKey:</b>            | MJPXUXNGHKYZIV-GGWOSOGESA-N                                |
| <b>Formula:</b>             | C7H11NO  |
| <b>SMILES:</b>              | CN(C)C=CC=CC=O   |
| <b>Mol. weight [g/mol]:</b> | 125.17   |
| <b>CAS:</b>                 | 4688-60-2  |

## Physical Properties

| Property code | Value           | Unit                 | Source         |
|---------------|-----------------|----------------------|----------------|
| chs           | -4199.00 ± 1.00 | kJ/mol               | NIST Webbook   |
| gf            | 179.76          | kJ/mol               | Joback Method  |
| hf            | -29.10          | kJ/mol               | NIST Webbook   |
| hfus          | 19.60           | kJ/mol               | Joback Method  |
| hsub          | 99.04 ± 0.92    | kJ/mol               | NIST Webbook   |
| hvap          | 39.86           | kJ/mol               | Joback Method  |
| log10ws       | -0.81           |                      | Crippen Method |
| logp          | 0.817           |                      | Crippen Method |
| mcvol         | 112.440         | ml/mol               | McGowan Method |
| pc            | 3403.91         | kPa                  | Joback Method  |
| tb            | 428.98          | K                    | Joback Method  |
| tc            | 616.55          | K                    | Joback Method  |
| tf            | 232.96          | K                    | Joback Method  |
| vc            | 0.422           | m <sup>3</sup> /kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 215.15 | J/mol×K | 428.98          | Joback Method |
| cpg           | 226.62 | J/mol×K | 460.24          | Joback Method |
| cpg           | 237.40 | J/mol×K | 491.50          | Joback Method |
| cpg           | 247.53 | J/mol×K | 522.77          | Joback Method |
| cpg           | 257.05 | J/mol×K | 554.03          | Joback Method |
| cpg           | 266.00 | J/mol×K | 585.29          | Joback Method |
| cpg           | 274.40 | J/mol×K | 616.55          | Joback Method |

# Sources

|                        |   |
|------------------------|---|
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C4688602&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4688602&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>                                       |
| <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>chs:</b>     | Standard solid enthalpy of combustion           |
| <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>hsub:</b>    | Enthalpy of sublimation 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>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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