

# Myltayl-8(12)-ene

Inchi:

InChI=1S/C15H24/c1-11-10-15-9-6-12(11)14(15,4)8-5-7-13(15,2)3/h12H,1,5-10H2,2-4H3

InchiKey:

PNEUWJHYPHTVCH-BLZCZZARSA-N

Formula:

C15H24

SMILES:

C=C1CC23CCC1C2(C)CCCC3(C)C

Mol. weight [g/mol]:

204.35

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | 262.37  | kJ/mol  | Joback Method  |
| hf            | -37.23  | kJ/mol  | Joback Method  |
| hfus          | 5.83    | kJ/mol  | Joback Method  |
| hvap          | 45.46   | kJ/mol  | Joback Method  |
| log10ws       | -4.67   |         | Crippen Method |
| logp          | 4.559   |         | Crippen Method |
| mcvol         | 185.330 | ml/mol  | McGowan Method |
| pc            | 2274.07 | kPa     | Joback Method  |
| rinpol        | 1445.00 |         | NIST Webbook   |
| rinpol        | 1445.00 |         | NIST Webbook   |
| rinpol        | 1453.00 |         | NIST Webbook   |
| tb            | 566.57  | K       | Joback Method  |
| tc            | 800.20  | K       | Joback Method  |
| tf            | 386.73  | K       | Joback Method  |
| vc            | 0.708   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 500.14 | J/mol×K | 566.57          | Joback Method |
| cpg           | 522.76 | J/mol×K | 605.51          | Joback Method |
| cpg           | 543.69 | J/mol×K | 644.45          | Joback Method |
| cpg           | 563.39 | J/mol×K | 683.38          | Joback Method |
| cpg           | 582.28 | J/mol×K | 722.32          | Joback Method |
| cpg           | 600.82 | J/mol×K | 761.26          | Joback Method |
| cpg           | 619.44 | J/mol×K | 800.20          | Joback Method |

# Sources

|                        |                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <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>                     |
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R620907&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R620907&amp;Units=SI</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>rlnpol:</b>  | Non-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                                 |

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