

# Campherenone

Inchi:

InChI=1S/C15H24O/c1-11(2)6-5-8-14(3)12-7-9-15(14,4)13(16)10-12/h6,12H,5,7-10H2,1-

InchiKey:

UTVLNNVHVYZXEC-UHFFFAOYSA-N

Formula:

C15H24O

SMILES:

CC(C)=CCCC1(C)C2CCC1(C)C(=O)C2

Mol. weight [g/mol]:

220.35

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | 115.21  | kJ/mol  | Joback Method  |
| hf            | -233.62 | kJ/mol  | Joback Method  |
| hfus          | 15.65   | kJ/mol  | Joback Method  |
| hvap          | 50.66   | kJ/mol  | Joback Method  |
| log10ws       | -4.30   |         | Crippen Method |
| logp          | 4.128   |         | Crippen Method |
| mcvol         | 197.760 | ml/mol  | McGowan Method |
| pc            | 2021.76 | kPa     | Joback Method  |
| rinpol        | 1642.00 |         | NIST Webbook   |
| rinpol        | 1647.00 |         | NIST Webbook   |
| tb            | 628.02  | K       | Joback Method  |
| tc            | 853.58  | K       | Joback Method  |
| tf            | 383.91  | K       | Joback Method  |
| vc            | 0.764   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 554.05 | J/mol×K | 628.02          | Joback Method |
| cpg           | 574.65 | J/mol×K | 665.61          | Joback Method |
| cpg           | 594.24 | J/mol×K | 703.21          | Joback Method |
| cpg           | 613.07 | J/mol×K | 740.80          | Joback Method |
| cpg           | 631.41 | J/mol×K | 778.39          | Joback Method |
| cpg           | 649.54 | J/mol×K | 815.98          | Joback Method |
| cpg           | 667.72 | J/mol×K | 853.58          | Joback Method |

# Sources

|                        |                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R239660&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R239660&amp;Units=SI</a> |
| <b>Crippen Method:</b> | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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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