

# Cyclocopacamphan-12-ol

|                             |   |
|-----------------------------|---|
| <b>Inchi:</b>               | InChI=1S/C15H24O/c1-8(7-16)9-4-5-14(2)10-6-11-13(12(9)10)15(11,14)3/h8-13,16H,4-7 |
| <b>InchiKey:</b>            | TUWGUUUUJAXUPF-ZGWIHEAISA-N   |
| <b>Formula:</b>             | C15H24O   |
| <b>SMILES:</b>              | CC(CO)C1CCC2(C)C3CC4C(C13)C42C  |
| <b>Mol. weight [g/mol]:</b> | 220.35  |

## Physical Properties

| Property code | Value   | Unit                 | Source         |
|---------------|---------|----------------------|----------------|
| gf            | 169.25  | kJ/mol               | Joback Method  |
| hf            | -237.46 | kJ/mol               | Joback Method  |
| hfus          | 22.53   | kJ/mol               | Joback Method  |
| hvap          | 61.35   | kJ/mol               | Joback Method  |
| log10ws       | -3.01   |                      | Crippen Method |
| logp          | 2.933   |                      | Crippen Method |
| mcvol         | 184.640 | ml/mol               | McGowan Method |
| pc            | 2274.07 | kPa                  | Joback Method  |
| rinpol        | 1645.00 |                      | NIST Webbook   |
| rinpol        | 1643.00 |                      | NIST Webbook   |
| rinpol        | 1663.00 |                      | NIST Webbook   |
| rinpol        | 1643.00 |                      | NIST Webbook   |
| ripol         | 2351.00 |                      | NIST Webbook   |
| ripol         | 2351.00 |                      | NIST Webbook   |
| tb            | 639.23  | K                    | Joback Method  |
| tc            | 837.50  | K                    | Joback Method  |
| tf            | 418.51  | K                    | Joback Method  |
| vc            | 0.726   | m <sup>3</sup> /kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 575.79 | J/molxK | 639.23          | Joback Method |
| cpg           | 593.44 | J/molxK | 672.27          | Joback Method |
| cpg           | 610.25 | J/molxK | 705.32          | Joback Method |
| cpg           | 626.45 | J/molxK | 738.36          | Joback Method |

|     |        |         |        |               |
|-----|--------|---------|--------|---------------|
| cpg | 642.30 | J/mol×K | 771.41 | Joback Method |
| cpg | 658.05 | J/mol×K | 804.45 | Joback Method |
| cpg | 673.93 | J/mol×K | 837.50 | Joback Method |

## Sources

|                        |   |
|------------------------|---|
| <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=R198366&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R198366&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>                                 |

## 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                                 |

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