

Artemisinic alcohol

| | |
|-----------------------------|---|
| Inchi: | InChI=1S/C15H24O/c1-10-4-6-13-11(2)5-7-14(12(3)9-16)15(13)8-10/h8,11,13-16H,3-7,9 |
| InchiKey: | CZSSHKCZSDDOAH-ZGKBOVNRSA-N |
| Formula: | C15H24O |
| SMILES: | <chem>C=C(CO)C1CCC(C)C2CCC(C)=CC12</chem> |
| Mol. weight [g/mol]: | 220.35 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 95.90 | kJ/mol | Joback Method |
| hf | -262.93 | kJ/mol | Joback Method |
| hfus | 26.95 | kJ/mol | Joback Method |
| hvap | 65.92 | kJ/mol | Joback Method |
| log10ws | -3.89 | | Crippen Method |
| logp | 3.554 | | Crippen Method |
| mcvol | 197.760 | ml/mol | McGowan Method |
| pc | 2058.62 | kPa | Joback Method |
| rinpol | 1761.00 | | NIST Webbook |
| ripol | 2513.00 | | NIST Webbook |
| tb | 656.70 | K | Joback Method |
| tc | 858.12 | K | Joback Method |
| tf | 330.51 | K | Joback Method |
| vc | 0.743 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 577.43 | J/mol×K | 656.70 | Joback Method |
| cpg | 596.86 | J/mol×K | 690.27 | Joback Method |
| cpg | 615.17 | J/mol×K | 723.84 | Joback Method |
| cpg | 632.38 | J/mol×K | 757.41 | Joback Method |
| cpg | 648.56 | J/mol×K | 790.98 | Joback Method |
| cpg | 663.74 | J/mol×K | 824.55 | Joback Method |
| cpg | 677.97 | J/mol×K | 858.12 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R603764&Units=SI |

Legend

| | |
|------------------|---|
| cpg: | Ideal gas heat capacity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hvap: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| rinpolar: | Non-polar retention indices |
| ripolar: | Polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

Latest version available from:

<https://www.chemeo.com/cid/71-679-0/Artemisinic-alcohol.pdf>

Generated by Cheméo on 2024-04-30 13:37:03.23587612 +0000 UTC m=+16773472.156453432.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.