

# (-)-(7S,10S)-7-hydroxyeudesm-4-en-6-one

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C15H24O2/c1-10(2)15(17)9-8-14(4)7-5-6-11(3)12(14)13(15)16/h10,17H,5-9H2

ZANHXCFRKGGJIZ-GJZGRUSLSA-N

C15H24O2

CC1=C2C(=O)C(O)(C(C)C)CCC2(C)CCC1

236.35

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | -113.61 | kJ/mol  | Joback Method  |
| hf            | -461.86 | kJ/mol  | Joback Method  |
| hfus          | 10.40   | kJ/mol  | Joback Method  |
| hvap          | 69.35   | kJ/mol  | Joback Method  |
| log10ws       | -3.92   |         | Crippen Method |
| logp          | 3.243   |         | Crippen Method |
| mcvol         | 203.630 | ml/mol  | McGowan Method |
| pc            | 2340.56 | kPa     | Joback Method  |
| rinpol        | 1712.00 |         | NIST Webbook   |
| tb            | 742.32  | K       | Joback Method  |
| tc            | 966.16  | K       | Joback Method  |
| tf            | 468.25  | K       | Joback Method  |
| vc            | 0.759   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 625.48 | J/mol×K | 742.32          | Joback Method |
| cpg           | 644.35 | J/mol×K | 779.63          | Joback Method |
| cpg           | 662.84 | J/mol×K | 816.93          | Joback Method |
| cpg           | 681.18 | J/mol×K | 854.24          | Joback Method |
| cpg           | 699.58 | J/mol×K | 891.55          | Joback Method |
| cpg           | 718.25 | J/mol×K | 928.86          | Joback Method |
| cpg           | 737.41 | J/mol×K | 966.16          | Joback Method |

# Sources

|                        |                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <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=R422892&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R422892&amp;Units=SI</a> |
| <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>                         |

## 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>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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