# Eudesma-3,5-dien-1«alpha»-yl methyl ether

**Inchi:** InChI=1S/C16H26O/c1-11(2)13-8-9-16(4)14(10-13)12(3)6-7-15(16)17-5/h6,10-11,13,15H
**InchiKey:** LVFDEVPYJMMYOB-NUEKZKHPSA-N
**Formula:** C16H26O
**SMILES:** COC1CC=C(C)C2=CC(C(C)C)CCC21C
**Mol. weight [g/mol]:** 234.38

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 76.96 | kJ/mol | Joback Method |
| hf | -302.59 | kJ/mol | Joback Method |
| hfus | 19.17 | kJ/mol | Joback Method |
| hvap | 54.19 | kJ/mol | Joback Method |
| log10ws | -4.49 | | Crippen Method |
| logp | 4.350 | | Crippen Method |
| mcvol | 211.850 | ml/mol | McGowan Method |
| pc | 1812.32 | kPa | Joback Method |
| rinpol | 1645.00 | | NIST Webbook |
| ripol | 1967.00 | | NIST Webbook |
| tb | 621.87 | K | Joback Method |
| tc | 839.15 | K | Joback Method |
| tf | 345.33 | K | Joback Method |
| vc | 0.794 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 585.15 | J/mol×K | 621.87 | Joback Method |
| cpg | 607.46 | J/mol×K | 658.08 | Joback Method |
| cpg | 628.57 | J/mol×K | 694.30 | Joback Method |
| cpg | 648.59 | J/mol×K | 730.51 | Joback Method |
| cpg | 667.65 | J/mol×K | 766.72 | Joback Method |
| cpg | 685.88 | J/mol×K | 802.94 | Joback Method |
| cpg | 703.39 | J/mol×K | 839.15 | Joback Method |

# Sources

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|---|---|
| **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=R236196&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# Legend

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|---|---|
| **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 |
| **rinpol:** | Non-polar retention indices |
| **ripol:** | Polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |