# «alpha»-Eudesmol acetate

**Inchi:** InChI=1S/C17H28O2/c1-12-7-6-9-17(5)10-8-14(11-15(12)17)16(3,4)19-13(2)18/h7,14-15
**InchiKey:** DGEOCHVUGVJYQB-AYWPPYMVSA-N
**Formula:** C17H28O2
**SMILES:** CC(=O)OC(C)(C)C1CCC2(C)CCC=C(C)C2C1
**Mol. weight [g/mol]:** 264.40

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -58.59 | kJ/mol | Joback Method |
| hf | -485.59 | kJ/mol | Joback Method |
| hfus | 18.64 | kJ/mol | Joback Method |
| hvap | 61.30 | kJ/mol | Joback Method |
| log10ws | -4.83 | | Crippen Method |
| logp | 4.491 | | Crippen Method |
| mcvol | 231.810 | ml/mol | McGowan Method |
| pc | 1747.74 | kPa | Joback Method |
| rinpol | 1779.00 | | NIST Webbook |
| rinpol | 1748.00 | | NIST Webbook |
| rinpol | 1779.00 | | NIST Webbook |
| rinpol | 1785.00 | | NIST Webbook |
| rinpol | 1748.00 | | NIST Webbook |
| rinpol | 1795.00 | | NIST Webbook |
| rinpol | 1785.00 | | NIST Webbook |
| tb | 691.69 | K | Joback Method |
| tc | 916.62 | K | Joback Method |
| tf | 410.67 | K | Joback Method |
| vc | 0.866 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 693.68 | J/mol×K | 691.69 | Joback Method |
| cpg | 716.12 | J/mol×K | 729.18 | Joback Method |
| cpg | 737.32 | J/mol×K | 766.67 | Joback Method |

| | | | | |
|---|---|---|---|---|
| cpg | 757.44 | J/mol×K | 804.16 | Joback Method |
| cpg | 776.66 | J/mol×K | 841.65 | Joback Method |
| cpg | 795.13 | J/mol×K | 879.14 | Joback Method |
| cpg | 813.02 | J/mol×K | 916.62 | Joback Method |

# Sources

| | |
|---|---|
| **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=R129741&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

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