# (E,Z)-«alpha»-Farnesene

**Other names:** (3E,6Z)-«alpha»-Farnesene
**Inchi:** InChI=1S/C15H24/c1-6-14(4)10-8-12-15(5)11-7-9-13(2)3/h6,9-10,12H,1,7-8,11H2,2-5H3
**InchiKey:** CXENHBSYCFFKJS-DZKMRSEMSA-N
**Formula:** C15H24
**SMILES:** C=CC(C)=CCC=C(C)CCC=C(C)C
**Mol. weight [g/mol]:** 204.35

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | -7.48 | kJ/mol | Cheméo Relay (1.0) |
| hfus | 30.00 | kJ/mol | Joback Method |
| hvap | 66.81 | kJ/mol | Cheméo Relay (1.0) |
| log10ws | -5.65 | | Cheméo Relay (1.0) |
| logp | 5.202 | | Crippen Method |
| mcvol | 205.010 | ml/mol | McGowan Method |
| rinpol | 1492.00 | | NIST Webbook |
| rinpol | 1475.00 | | NIST Webbook |
| rinpol | 1481.00 | | NIST Webbook |
| rinpol | 1518.00 | | NIST Webbook |
| rinpol | 1498.00 | | NIST Webbook |
| rinpol | 1492.00 | | NIST Webbook |
| rinpol | 1497.00 | | NIST Webbook |
| rinpol | 1497.00 | | NIST Webbook |
| rinpol | 1481.00 | | NIST Webbook |
| rinpol | 1483.00 | | NIST Webbook |
| rinpol | 1475.00 | | NIST Webbook |
| rinpol | 1477.00 | | NIST Webbook |
| rinpol | 1483.00 | | NIST Webbook |
| ripol | 1726.00 | | NIST Webbook |
| ripol | 1722.00 | | NIST Webbook |
| ripol | 1724.00 | | NIST Webbook |
| ripol | 1688.00 | | NIST Webbook |
| ripol | 1722.00 | | NIST Webbook |
| ripol | 1688.00 | | NIST Webbook |
| tb | 526.53 | K | Cheméo Relay (1.0) |
| tf | 224.45 | K | Cheméo Relay (1.0) |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 483.77 | J/mol×K | 551.40 | Joback Method |
| cpg | 501.93 | J/mol×K | 583.16 | Joback Method |
| cpg | 519.09 | J/mol×K | 614.93 | Joback Method |
| cpg | 535.33 | J/mol×K | 646.69 | Joback Method |
| cpg | 550.70 | J/mol×K | 678.45 | Joback Method |
| cpg | 565.26 | J/mol×K | 710.22 | Joback Method |
| cpg | 579.10 | J/mol×K | 741.98 | Joback Method |

# Sources

| | |
|---|---|
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Cheméo Relay (1.0):** | |
| **Cheméo Relay (1.0, beta):** | |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U293032&Units=SI |

# Legend

| | |
|---|---|
| **cpg:** | Ideal gas heat capacity |
| **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 |
| **rinpol:** | Non-polar retention indices |
| **ripol:** | Polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tf:** | Normal melting (fusion) point |