

«beta»-Sinensal

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|-----------------------------|-----------------------------------------------------------------------------------|
| Other names: | 2,6-dimethyl-10-methylenedodeca-2,6,11-trien-1-al |
| Inchi: | InChI=1S/C15H22O/c1-5-13(2)8-6-9-14(3)10-7-11-15(4)12-16/h5,9,11-12H,1-2,6-8,10H2 |
| InchiKey: | NOPLRNXXKHZRXHT-YFVJMOTDSA-N |
| Formula: | C15H22O |
| SMILES: | C=CC(=C)CCC=C(C)CCC=C(C)C=O |
| Mol. weight [g/mol]: | 218.33 |
| CAS: | 60066-88-8 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|--------|----------------|
| gf | 286.37 | kJ/mol | Joback Method |
| hf | 17.42 | kJ/mol | Joback Method |
| hfus | 30.81 | kJ/mol | Joback Method |
| hvap | 54.52 | kJ/mol | Joback Method |
| log10ws | -4.80 | | Crippen Method |
| logp | 4.381 | | Crippen Method |
| mcvol | 206.580 | ml/mol | McGowan Method |
| pc | 1763.93 | kPa | Joback Method |
| rinpol | 1707.00 | | NIST Webbook |
| rinpol | 1664.00 | | NIST Webbook |
| rinpol | 1706.00 | | NIST Webbook |
| rinpol | 1700.00 | | NIST Webbook |
| rinpol | 1673.00 | | NIST Webbook |
| rinpol | 1668.00 | | NIST Webbook |
| rinpol | 1695.00 | | NIST Webbook |
| rinpol | 1673.00 | | NIST Webbook |
| rinpol | 1673.00 | | NIST Webbook |
| rinpol | 1685.00 | | NIST Webbook |
| rinpol | 1671.00 | | NIST Webbook |
| rinpol | 1672.00 | | NIST Webbook |
| rinpol | 1671.00 | | NIST Webbook |
| rinpol | 1706.00 | | NIST Webbook |
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| rinpol | 1658.00 | NIST Webbook |
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| rinpol | 1672.00 | NIST Webbook |
| rinpol | 1691.00 | NIST Webbook |
| rinpol | 1669.00 | NIST Webbook |
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| rinpol | 1671.00 | NIST Webbook |
| rinpol | 1671.00 | NIST Webbook |
| rinpol | 1697.00 | NIST Webbook |
| rinpol | 1700.00 | NIST Webbook |
| rinpol | 1697.00 | NIST Webbook |
| rinpol | 1702.50 | NIST Webbook |
| rinpol | 1661.00 | NIST Webbook |
| rinpol | 1658.00 | NIST Webbook |
| rinpol | 1671.00 | NIST Webbook |
| rinpol | 1677.00 | NIST Webbook |
| rinpol | 1664.00 | NIST Webbook |
| rinpol | 1693.00 | NIST Webbook |
| rinpol | 1694.00 | NIST Webbook |
| rinpol | 1702.50 | NIST Webbook |
| ripol | 2200.00 | NIST Webbook |
| ripol | 2249.00 | NIST Webbook |
| ripol | 2254.00 | NIST Webbook |
| ripol | 2242.00 | NIST Webbook |
| ripol | 2200.00 | NIST Webbook |
| ripol | 2249.00 | NIST Webbook |
| ripol | 2225.00 | NIST Webbook |
| ripol | 2244.00 | NIST Webbook |
| ripol | 2239.00 | NIST Webbook |
| ripol | 2225.00 | NIST Webbook |
| ripol | 2225.00 | NIST Webbook |
| ripol | 2189.00 | NIST Webbook |
| ripol | 2251.00 | NIST Webbook |
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| ripol | 2237.00 | NIST Webbook |
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| ripol | 2200.00 | | NIST Webbook |
| ripol | 2209.00 | | NIST Webbook |
| ripol | 2251.00 | | NIST Webbook |
| ripol | 2238.00 | | NIST Webbook |
| ripol | 2242.00 | | NIST Webbook |
| ripol | 2239.00 | | NIST Webbook |
| ripol | 2228.00 | | NIST Webbook |
| ripol | 2203.00 | | NIST Webbook |
| ripol | 2250.00 | | NIST Webbook |
| ripol | 2250.00 | | NIST Webbook |
| tb | 592.58 | K | Joback Method |
| tc | 782.72 | K | Joback Method |
| tf | 245.25 | K | Joback Method |
| vc | 0.818 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 508.03 | J/mol×K | 592.58 | Joback Method |
| cpg | 524.29 | J/mol×K | 624.27 | Joback Method |
| cpg | 539.65 | J/mol×K | 655.96 | Joback Method |
| cpg | 554.19 | J/mol×K | 687.65 | Joback Method |
| cpg | 567.94 | J/mol×K | 719.34 | Joback Method |
| cpg | 580.98 | J/mol×K | 751.03 | Joback Method |
| cpg | 593.36 | J/mol×K | 782.72 | Joback Method |

Sources

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307I>

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=C60066888&Units=SI>

Legend

| | |
|---------------------------------------|-------------------------------------------------|
| cp_g: | Ideal gas heat capacity |
| g_f: | Standard Gibbs free energy of formation |
| h_f: | Enthalpy of formation at standard conditions |
| h_{fus}: | Enthalpy of fusion at standard conditions |
| h_{vap}: | Enthalpy of vaporization at standard conditions |
| log₁₀w_s: | Log ₁₀ of Water solubility in mol/l |
| log_p: | Octanol/Water partition coefficient |
| mc_{vol}: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| ri_{npol}: | Non-polar retention indices |
| ri_{pol}: | Polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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