

«alpha»-Longipinen-2-one (Vulgarone B)

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|-----------------------------|---|
| Inchi: | InChI=1S/C15H22O/c1-9-8-10(16)12-13-11(9)15(12,4)7-5-6-14(13,2)3/h8,11-13H,5-7H2, |
| InchiKey: | KTPOZFYJWLGJGH-HJZMNPPUSA-N |
| Formula: | C15H22O |
| SMILES: | CC1=CC(=O)C2C3C1C2(C)CCCC3(C)C |
| Mol. weight [g/mol]: | 218.33 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 104.81 | kJ/mol | Joback Method |
| hf | -248.44 | kJ/mol | Joback Method |
| hfus | 14.70 | kJ/mol | Joback Method |
| hvap | 51.35 | kJ/mol | Joback Method |
| log10ws | -3.71 | | Crippen Method |
| logp | 3.594 | | Crippen Method |
| mcvol | 186.900 | ml/mol | McGowan Method |
| pc | 2187.68 | kPa | Joback Method |
| rinpol | 1647.00 | | NIST Webbook |
| rinpol | 1644.00 | | NIST Webbook |
| rinpol | 1630.00 | | NIST Webbook |
| rinpol | 1596.00 | | NIST Webbook |
| tb | 634.46 | K | Joback Method |
| tc | 873.09 | K | Joback Method |
| tf | 426.41 | K | Joback Method |
| vc | 0.718 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 542.90 | J/molxK | 634.46 | Joback Method |
| cpg | 564.64 | J/molxK | 674.23 | Joback Method |
| cpg | 585.28 | J/molxK | 714.00 | Joback Method |
| cpg | 605.11 | J/molxK | 753.77 | Joback Method |
| cpg | 624.46 | J/molxK | 793.54 | Joback Method |
| cpg | 643.61 | J/molxK | 833.32 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R226609&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |
| Crippen Method: | https://www.cheméo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |

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 |

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