

Methyl ar-curcumen-15-oate

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|-----------------------------|---|
| Inchi: | InChI=1S/C16H22O2/c1-12(2)6-5-7-13(3)14-8-10-15(11-9-14)16(17)18-4/h6,8-11,13H,5, |
| InchiKey: | LVULNLVBTSBSBO-UHFFFAOYSA-N |
| Formula: | C16H22O2 |
| SMILES: | <chem>COC(=O)c1ccc(C(C)CCC=C(C)C)cc1</chem> |
| Mol. weight [g/mol]: | 246.34 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 21.93 | kJ/mol | Joback Method |
| hf | -291.16 | kJ/mol | Joback Method |
| hfus | 29.00 | kJ/mol | Joback Method |
| hvap | 62.95 | kJ/mol | Joback Method |
| log10ws | -4.85 | | Crippen Method |
| logp | 4.323 | | Crippen Method |
| mcvol | 215.680 | ml/mol | McGowan Method |
| pc | 1846.75 | kPa | Joback Method |
| rinpol | 1850.00 | | NIST Webbook |
| rinpol | 1850.00 | | NIST Webbook |
| ripol | 2410.00 | | NIST Webbook |
| tb | 677.03 | K | Joback Method |
| tc | 886.86 | K | Joback Method |
| tf | 347.14 | K | Joback Method |
| vc | 0.823 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 577.77 | J/molxK | 677.03 | Joback Method |
| cpg | 594.84 | J/molxK | 712.00 | Joback Method |
| cpg | 610.90 | J/molxK | 746.97 | Joback Method |
| cpg | 625.97 | J/molxK | 781.95 | Joback Method |
| cpg | 640.10 | J/molxK | 816.92 | Joback Method |
| cpg | 653.34 | J/molxK | 851.89 | Joback Method |
| cpg | 665.72 | J/molxK | 886.86 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R503129&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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 |

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

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