

(-)-1R-8-Hydroxy-p-menth-4-en-3-one

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| Other names: | 8-hydroxy-p-menth-4-en-3-one |
| Inchi: | InChI=1S/C10H16O2/c1-7-4-5-8(9(11)6-7)10(2,3)12/h5,7,12H,4,6H2,1-3H3/t7-/m0/s1 |
| InchiKey: | SNBPZAIQWQXUCR-ZETCQYMHSA-N |
| Formula: | C10H16O2 |
| SMILES: | CC1CC=C(C(C)(C)O)C(=O)C1 |
| Mol. weight [g/mol]: | 168.23 |
| CAS: | 35736-66-4 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -178.47 | kJ/mol | Joback Method |
| hf | -447.78 | kJ/mol | Joback Method |
| hfus | 10.51 | kJ/mol | Joback Method |
| hvap | 58.87 | kJ/mol | Joback Method |
| log10ws | -2.17 | | Crippen Method |
| logp | 1.683 | | Crippen Method |
| mcvol | 144.040 | ml/mol | McGowan Method |
| pc | 3065.95 | kPa | Joback Method |
| rinpol | 1264.00 | | NIST Webbook |
| tb | 608.66 | K | Joback Method |
| tc | 822.00 | K | Joback Method |
| tf | 354.58 | K | Joback Method |
| vc | 0.529 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 384.00 | J/molxK | 608.66 | Joback Method |
| cpg | 399.22 | J/molxK | 644.22 | Joback Method |
| cpg | 413.54 | J/molxK | 679.77 | Joback Method |
| cpg | 426.99 | J/molxK | 715.33 | Joback Method |
| cpg | 439.59 | J/molxK | 750.88 | Joback Method |
| cpg | 451.34 | J/molxK | 786.44 | Joback Method |
| cpg | 462.27 | J/molxK | 822.00 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=C35736664&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |

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

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