

4-Hepten-3-one, 2,5,6-trimethyl-

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|-----------------------------|---|
| Other names: | 2,5,6-Trimethyl-4-hepten-3-one 2,3,6-trimethyl-3-heptene-5-one |
| Inchi: | InChI=1S/C10H18O/c1-7(2)9(5)6-10(11)8(3)4/h6-8H,1-5H3/b9-6+ |
| InchiKey: | BHUQHYYIULGGWLZ-RMKNXTFCSA-N |
| Formula: | C10H18O |
| SMILES: | CC(=CC(=O)C(C)C)C(C)C |
| Mol. weight [g/mol]: | 154.25 |
| CAS: | 16466-21-0 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -28.81 | kJ/mol | Joback Method |
| hf | -265.44 | kJ/mol | Joback Method |
| hfus | 15.10 | kJ/mol | Joback Method |
| hvap | 43.86 | kJ/mol | Joback Method |
| log10ws | -2.66 | | Crippen Method |
| logp | 2.814 | | Crippen Method |
| mcvol | 149.030 | ml/mol | McGowan Method |
| pc | 2398.22 | kPa | Joback Method |
| tb | 485.23 | K | Joback Method |
| tc | 677.16 | K | Joback Method |
| tf | 203.35 | K | Joback Method |
| vc | 0.571 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 325.51 | J/molxK | 485.23 | Joback Method |
| cpg | 340.64 | J/molxK | 517.22 | Joback Method |
| cpg | 355.02 | J/molxK | 549.21 | Joback Method |
| cpg | 368.68 | J/molxK | 581.19 | Joback Method |
| cpg | 381.65 | J/molxK | 613.18 | Joback Method |
| cpg | 393.95 | J/molxK | 645.17 | Joback Method |
| cpg | 405.62 | J/molxK | 677.16 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C16466210&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

| | |
|-----------------|---|
| 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 |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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