

4-(1,5-Dimethylhex-4-enyl)cyclohex-2-enone

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| Other names: | 4-(6-Methylhept-5-en-2-yl)cyclohex-2-enone |
| Inchi: | InChI=1S/C14H22O/c1-11(2)5-4-6-12(3)13-7-9-14(15)10-8-13/h5,7,9,12-13H,4,6,8,10H2 |
| InchiKey: | CIIUTVUZULBJKL-UHFFFAOYSA-N |
| Formula: | C14H22O |
| SMILES: | CC(C)=CCCC(C)C1C=CC(=O)CC1 |
| Mol. weight [g/mol]: | 206.32 |
| CAS: | 1723-80-4 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 68.05 | kJ/mol | Joback Method |
| hf | -255.74 | kJ/mol | Joback Method |
| hfus | 19.95 | kJ/mol | Joback Method |
| hvap | 51.38 | kJ/mol | Joback Method |
| log10ws | -4.08 | | Crippen Method |
| logp | 3.904 | | Crippen Method |
| mcvol | 190.230 | ml/mol | McGowan Method |
| pc | 2027.23 | kPa | Joback Method |
| rinpol | 1697.80 | | NIST Webbook |
| rinpol | 1697.80 | | NIST Webbook |
| tb | 609.85 | K | Joback Method |
| tc | 828.69 | K | Joback Method |
| tf | 289.86 | K | Joback Method |
| vc | 0.721 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 501.61 | J/molxK | 609.85 | Joback Method |
| cpg | 522.16 | J/molxK | 646.32 | Joback Method |
| cpg | 541.51 | J/molxK | 682.80 | Joback Method |
| cpg | 559.71 | J/molxK | 719.27 | Joback Method |
| cpg | 576.77 | J/molxK | 755.74 | Joback Method |
| cpg | 592.74 | J/molxK | 792.21 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=C1723804&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |

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 |
| 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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