

3-Octene, 2,6-dimethyl-

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|-----------------------------|--|
| Other names: | 2,6-Dimethyl-3-octene |
| Inchi: | InChI=1S/C10H20/c1-5-10(4)8-6-7-9(2)3/h6-7,9-10H,5,8H2,1-4H3/b7-6+ |
| InchiKey: | UUHFPYZUFHRJP-VOTSOKGWSA-N |
| Formula: | C10H20 |
| SMILES: | CCC(C)CC=CC(C)C |
| Mol. weight [g/mol]: | 140.27 |
| CAS: | 6874-28-8 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 108.66 | kJ/mol | Joback Method |
| hf | -143.07 | kJ/mol | Joback Method |
| hfus | 14.81 | kJ/mol | Joback Method |
| hvap | 37.04 | kJ/mol | Joback Method |
| log10ws | -3.38 | | Crippen Method |
| logp | 3.635 | | Crippen Method |
| mcvol | 147.460 | ml/mol | McGowan Method |
| pc | 2246.13 | kPa | Joback Method |
| tb | 431.48 | K | Joback Method |
| tc | 609.35 | K | Joback Method |
| tf | 167.38 | K | Joback Method |
| vc | 0.564 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 300.30 | J/molxK | 431.48 | Joback Method |
| cpg | 316.10 | J/molxK | 461.12 | Joback Method |
| cpg | 331.20 | J/molxK | 490.77 | Joback Method |
| cpg | 345.63 | J/molxK | 520.41 | Joback Method |
| cpg | 359.41 | J/molxK | 550.06 | Joback Method |
| cpg | 372.56 | J/molxK | 579.70 | Joback Method |
| cpg | 385.12 | J/molxK | 609.35 | Joback Method |
| dvisc | 0.0212319 | Paxs | 167.38 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0041931 | Paxs | 211.40 | Joback Method |
| dvisc | 0.0014484 | Paxs | 255.41 | Joback Method |
| dvisc | 0.0006839 | Paxs | 299.43 | Joback Method |
| dvisc | 0.0003914 | Paxs | 343.45 | Joback Method |
| dvisc | 0.0002543 | Paxs | 387.46 | Joback Method |
| dvisc | 0.0001804 | Paxs | 431.48 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C6874288&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 |
| dvisc: | Dynamic viscosity |
| 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 |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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<https://www.chemeo.com/cid/39-031-4/3-Octene-2-6-dimethyl.pdf>

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