

3-Methyl-2-hexene

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| Other names: | 2-Hexene, 3-methyl |
| Inchi: | InChI=1S/C7H14/c1-4-6-7(3)5-2/h5H,4,6H2,1-3H3 |
| InchiKey: | JZMUUSXQSKCZNO-UHFFFAOYSA-N |
| Formula: | C7H14 |
| SMILES: | CC=C(C)CCC |
| Mol. weight [g/mol]: | 98.19 |
| CAS: | 17618-77-8 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------------|----------------------|----------------|
| gf | 79.73 | kJ/mol | Joback Method |
| hf | -80.38 | kJ/mol | Joback Method |
| hfus | 12.78 | kJ/mol | Joback Method |
| hvap | 31.21 | kJ/mol | Joback Method |
| log10ws | -2.61 | | Crippen Method |
| logp | 2.753 | | Crippen Method |
| mcvol | 105.190 | ml/mol | McGowan Method |
| pc | 2976.29 | kPa | Joback Method |
| rinpol | 708.00 | | NIST Webbook |
| rinpol | 708.00 | | NIST Webbook |
| rinpol | 702.00 | | NIST Webbook |
| rinpol | 702.00 | | NIST Webbook |
| tb | 368.00 ± 6.00 | K | NIST Webbook |
| tb | 369.40 ± 2.00 | K | NIST Webbook |
| tb | 361.00 ± 6.00 | K | NIST Webbook |
| tb | 367.55 ± 2.00 | K | NIST Webbook |
| tb | 368.15 ± 3.00 | K | NIST Webbook |
| tb | 365.15 ± 3.00 | K | NIST Webbook |
| tb | 366.35 ± 2.00 | K | NIST Webbook |
| tc | 539.41 | K | Joback Method |
| tf | 149.61 | K | Joback Method |
| vc | 0.408 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 180.34 | J/mol×K | 363.60 | Joback Method |
| cpg | 192.22 | J/mol×K | 392.90 | Joback Method |
| cpg | 203.59 | J/mol×K | 422.20 | Joback Method |
| cpg | 214.47 | J/mol×K | 451.50 | Joback Method |
| cpg | 224.86 | J/mol×K | 480.80 | Joback Method |
| cpg | 234.79 | J/mol×K | 510.11 | Joback Method |
| cpg | 244.29 | J/mol×K | 539.41 | 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=C17618778&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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