

2-Hexyne, 4,4,5-trimethyl

| | |
|-----------------------------|---|
| Inchi: | InChI=1S/C9H16/c1-6-7-9(4,5)8(2)3/h8H,1-5H3 |
| InchiKey: | YRWKVFWKGUZUGY-UHFFFAOYSA-N |
| Formula: | C9H16 |
| SMILES: | CC#CC(C)(C)C(C)C |
| Mol. weight [g/mol]: | 124.22 |
| CAS: | 994-21-8 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|-------------|---------|----------------|
| gf | 228.10 | kJ/mol | Joback Method |
| hf | 29.18 | kJ/mol | Joback Method |
| hfus | 11.25 | kJ/mol | Joback Method |
| hvap | 36.10 | kJ/mol | Joback Method |
| ie | 9.15 ± 0.01 | eV | NIST Webbook |
| log10ws | -2.90 | | Crippen Method |
| logp | 2.692 | | Crippen Method |
| mcvol | 129.070 | ml/mol | McGowan Method |
| pc | 2784.72 | kPa | Joback Method |
| rinpol | 806.00 | | NIST Webbook |
| tb | 410.65 | K | Joback Method |
| tc | 614.14 | K | Joback Method |
| tf | 284.71 | K | Joback Method |
| vc | 0.484 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 248.99 | J/molxK | 410.65 | Joback Method |
| cpg | 264.32 | J/molxK | 444.57 | Joback Method |
| cpg | 278.83 | J/molxK | 478.48 | Joback Method |
| cpg | 292.56 | J/molxK | 512.40 | Joback Method |
| cpg | 305.55 | J/molxK | 546.31 | Joback Method |
| cpg | 317.83 | J/molxK | 580.23 | Joback Method |
| cpg | 329.43 | J/molxK | 614.14 | Joback Method |

Sources

| | |
|------------------------|---|
| 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 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C994218&Units=SI |

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 |
| hvap: | Enthalpy of vaporization at standard conditions |
| ie: | Ionization energy |
| 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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<https://www.chemeo.com/cid/54-993-0/2-Hexyne-4-4-5-trimethyl.pdf>

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