

3-Heptene, 3-ethyl-

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| Other names: | 3-ethyl-3-heptene |
| Inchi: | InChI=1S/C9H18/c1-4-7-8-9(5-2)6-3/h8H,4-7H2,1-3H3 |
| InchiKey: | VUFGUGXXEWJSBM-UHFFFAOYSA-N |
| Formula: | C9H18 |
| SMILES: | CCCC=C(CC)CC |
| Mol. weight [g/mol]: | 126.24 |
| CAS: | 74764-46-8 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 96.57 | kJ/mol | Joback Method |
| hf | -121.66 | kJ/mol | Joback Method |
| hfus | 17.96 | kJ/mol | Joback Method |
| hvap | 35.67 | kJ/mol | Joback Method |
| log10ws | -3.44 | | Crippen Method |
| logp | 3.533 | | Crippen Method |
| mcvol | 133.370 | ml/mol | McGowan Method |
| pc | 2438.65 | kPa | Joback Method |
| tb | 409.36 | K | Joback Method |
| tc | 583.79 | K | Joback Method |
| tf | 172.15 | K | Joback Method |
| vc | 0.520 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 258.03 | J/mol×K | 409.36 | Joback Method |
| cpg | 272.25 | J/mol×K | 438.43 | Joback Method |
| cpg | 285.86 | J/mol×K | 467.50 | Joback Method |
| cpg | 298.88 | J/mol×K | 496.58 | Joback Method |
| cpg | 311.33 | J/mol×K | 525.65 | Joback Method |
| cpg | 323.24 | J/mol×K | 554.72 | Joback Method |
| cpg | 334.62 | J/mol×K | 583.79 | 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=C74764468&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| 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 |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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