

2,2,9,9-Tetramethyldec-5-ene-3,7-diyne

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|-----------------------------|---|
| Inchi: | InChI=1S/C14H20/c1-13(2,3)11-9-7-8-10-12-14(4,5)6/h7-8H,1-6H3/b8-7+ |
| InchiKey: | UUSGALMHPVDLPR-BQYQJAHWSA-N |
| Formula: | C14H20 |
| SMILES: | CC(C)(C)C#CC=CC#CC(C)(C)C |
| Mol. weight [g/mol]: | 188.31 |
| CAS: | 102745-35-7 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 558.50 | kJ/mol | Joback Method |
| hf | 312.03 | kJ/mol | Joback Method |
| hfus | 23.63 | kJ/mol | Joback Method |
| hvap | 48.43 | kJ/mol | Joback Method |
| log10ws | -4.64 | | Crippen Method |
| logp | 3.642 | | Crippen Method |
| mcvol | 186.620 | ml/mol | McGowan Method |
| pc | 2159.31 | kPa | Joback Method |
| tb | 535.42 | K | Joback Method |
| tc | 771.70 | K | Joback Method |
| tf | 459.50 | K | Joback Method |
| vc | 0.702 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 426.91 | J/molxK | 535.42 | Joback Method |
| cpg | 446.54 | J/molxK | 574.80 | Joback Method |
| cpg | 464.76 | J/molxK | 614.18 | Joback Method |
| cpg | 481.68 | J/molxK | 653.56 | Joback Method |
| cpg | 497.41 | J/molxK | 692.94 | Joback Method |
| cpg | 512.05 | J/molxK | 732.32 | Joback Method |
| cpg | 525.74 | J/molxK | 771.70 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |
| 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=C102745357&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 |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mccvol: | 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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