

Acetoxyacetic acid, hex-4-yn-3-yl ester

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|-----------------------------|---|
| Inchi: | InChI=1S/C10H14O4/c1-4-6-9(5-2)14-10(12)7-13-8(3)11/h9H,5,7H2,1-3H3 |
| InchiKey: | SRTYDEDBRGXGAT-UHFFFAOYSA-N |
| Formula: | C10H14O4 |
| SMILES: | CC#CC(CC)OC(=O)COC(C)=O |
| Mol. weight [g/mol]: | 198.22 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -234.16 | kJ/mol | Joback Method |
| hf | -472.31 | kJ/mol | Joback Method |
| hfus | 26.83 | kJ/mol | Joback Method |
| hvap | 57.93 | kJ/mol | Joback Method |
| log10ws | -1.64 | | Crippen Method |
| logp | 0.895 | | Crippen Method |
| mcvol | 158.040 | ml/mol | McGowan Method |
| pc | 2718.33 | kPa | Joback Method |
| rinqol | 1319.00 | | NIST Webbook |
| tb | 589.34 | K | Joback Method |
| tc | 793.61 | K | Joback Method |
| tf | 437.88 | K | Joback Method |
| vc | 0.600 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 377.07 | J/molxK | 589.34 | Joback Method |
| cpg | 389.79 | J/molxK | 623.39 | Joback Method |
| cpg | 401.92 | J/molxK | 657.43 | Joback Method |
| cpg | 413.47 | J/molxK | 691.48 | Joback Method |
| cpg | 424.43 | J/molxK | 725.52 | Joback Method |
| cpg | 434.77 | J/molxK | 759.57 | Joback Method |
| cpg | 444.50 | J/molxK | 793.61 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U299205&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 |
| 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 |
| 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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