

Dodec-5-yn-4-olide

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|-----------------------------|--|
| Inchi: | InChI=1S/C12H18O2/c1-2-3-4-5-6-7-8-11-9-10-12(13)14-11/h11H,2-6,9-10H2,1H3 |
| InchiKey: | BQEYXXKXBICFDS-UHFFFAOYSA-N |
| Formula: | C12H18O2 |
| SMILES: | CCCCCCC#CC1CCC(=O)O1 |
| Mol. weight [g/mol]: | 194.27 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 80.80 | kJ/mol | Joback Method |
| hf | -227.93 | kJ/mol | Joback Method |
| hfus | 31.38 | kJ/mol | Joback Method |
| hvap | 53.47 | kJ/mol | Joback Method |
| log10ws | -3.51 | | Crippen Method |
| logp | 2.666 | | Crippen Method |
| mcvol | 167.920 | ml/mol | McGowan Method |
| pc | 2490.03 | kPa | Joback Method |
| rinsol | 1714.00 | | NIST Webbook |
| tb | 593.01 | K | Joback Method |
| tc | 815.58 | K | Joback Method |
| tf | 436.79 | K | Joback Method |
| vc | 0.638 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 431.80 | J/mol×K | 593.01 | Joback Method |
| cpg | 449.95 | J/mol×K | 630.10 | Joback Method |
| cpg | 467.13 | J/mol×K | 667.20 | Joback Method |
| cpg | 483.34 | J/mol×K | 704.29 | Joback Method |
| cpg | 498.61 | J/mol×K | 741.39 | Joback Method |
| cpg | 512.92 | J/mol×K | 778.48 | Joback Method |
| cpg | 526.31 | J/mol×K | 815.58 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=R412954&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

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 |
| hvac: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mccol: | 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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