

cis-En-yn-dicycloether

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| Other names: | cis-Spiroether (Z)-En-yn-dicycloether |
| Inchi: | InChI=1S/C13H12O2/c1-2-3-4-5-7-12-8-10-13(15-12)9-6-11-14-13/h7-8,10H,6,9,11H2,1H |
| InchiKey: | WTRXKCNFPMTAJV-GHXNOFRVSA-N |
| Formula: | C13H12O2 |
| SMILES: | CC#CC#CC=C1C=CC2(CCCO2)O1 |
| Mol. weight [g/mol]: | 200.23 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 454.78 | kJ/mol | Joback Method |
| hf | 265.46 | kJ/mol | Joback Method |
| hfus | 35.77 | kJ/mol | Joback Method |
| hvap | 58.44 | kJ/mol | Joback Method |
| log10ws | -3.63 | | Crippen Method |
| logp | 1.990 | | Crippen Method |
| mcvol | 158.250 | ml/mol | McGowan Method |
| pc | 3517.91 | kPa | Joback Method |
| rinpol | 1846.00 | | NIST Webbook |
| rinpol | 1843.00 | | NIST Webbook |
| rinpol | 1802.00 | | NIST Webbook |
| rinpol | 1808.00 | | NIST Webbook |
| rinpol | 1808.00 | | NIST Webbook |
| tb | 605.74 | K | Joback Method |
| tc | 884.24 | K | Joback Method |
| tf | 566.19 | K | Joback Method |
| vc | 0.588 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 384.13 | J/molxK | 605.74 | Joback Method |
| cpg | 400.74 | J/molxK | 652.16 | Joback Method |
| cpg | 416.09 | J/molxK | 698.57 | Joback Method |

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|-----|--------|---------|--------|---------------|
| cpg | 430.51 | J/mol×K | 744.99 | Joback Method |
| cpg | 444.31 | J/mol×K | 791.41 | Joback Method |
| cpg | 457.79 | J/mol×K | 837.83 | Joback Method |
| cpg | 471.28 | J/mol×K | 884.24 | 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=R203171&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 |
| 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/61-275-9/cis-En-yn-dicycloether.pdf>

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