

4-Cyanobenzoic acid, 3-methyl-2-enyl ester

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|-----------------------------|---|
| Inchi: | InChI=1S/C13H13NO2/c1-10(2)7-8-16-13(15)12-5-3-11(9-14)4-6-12/h3-7H,8H2,1-2H3 |
| InchiKey: | DLINGEMBUUQSLN-UHFFFAOYSA-N |
| Formula: | C13H13NO2 |
| SMILES: | CC(C)=CCOC(=O)c1ccc(C#N)cc1 |
| Mol. weight [g/mol]: | 215.25 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 132.29 | kJ/mol | Joback Method |
| hf | -59.08 | kJ/mol | Joback Method |
| hfus | 26.26 | kJ/mol | Joback Method |
| hvap | 67.14 | kJ/mol | Joback Method |
| log10ws | -3.59 | | Crippen Method |
| logp | 2.681 | | Crippen Method |
| mcvol | 174.790 | ml/mol | McGowan Method |
| pc | 2329.27 | kPa | Joback Method |
| rinpola | 1706.00 | | NIST Webbook |
| tb | 710.91 | K | Joback Method |
| tc | 939.39 | K | Joback Method |
| tf | 393.32 | K | Joback Method |
| vc | 0.686 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 447.41 | J/mol×K | 710.91 | Joback Method |
| cpg | 459.76 | J/mol×K | 748.99 | Joback Method |
| cpg | 471.25 | J/mol×K | 787.07 | Joback Method |
| cpg | 481.93 | J/mol×K | 825.15 | Joback Method |
| cpg | 491.82 | J/mol×K | 863.23 | Joback Method |
| cpg | 500.99 | J/mol×K | 901.31 | Joback Method |
| cpg | 509.45 | J/mol×K | 939.39 | 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=U299222&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |

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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