

6-Nitroveratraldehyde

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|-----------------------------|---|
| Other names: | 3,4-Dimethoxy-6-nitrobenzaldehyde Benzaldehyde, 4,5-dimethoxy-2-nitro- |
| Inchi: | InChI=1S/C9H9NO5/c1-14-8-3-6(5-11)7(10(12)13)4-9(8)15-2/h3-5H,1-2H3 |
| InchiKey: | YWSPWKXREVSQCA-UHFFFAOYSA-N |
| Formula: | C9H9NO5 |
| SMILES: | COc1cc(C=O)c([N+](=O)[O-])cc1OC |
| Mol. weight [g/mol]: | 211.17 |
| CAS: | 20357-25-9 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -165.55 | kJ/mol | Joback Method |
| hf | -387.75 | kJ/mol | Joback Method |
| hfus | 27.97 | kJ/mol | Joback Method |
| hvap | 68.02 | kJ/mol | Joback Method |
| log10ws | -2.60 | | Crippen Method |
| logp | 1.424 | | Crippen Method |
| mcvol | 144.640 | ml/mol | McGowan Method |
| pc | 3287.81 | kPa | Joback Method |
| tb | 692.28 | K | Joback Method |
| tc | 927.60 | K | Joback Method |
| tf | 485.24 | K | Joback Method |
| vc | 0.567 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 366.96 | J/molxK | 692.28 | Joback Method |
| cpg | 377.68 | J/molxK | 731.50 | Joback Method |
| cpg | 387.65 | J/molxK | 770.72 | Joback Method |
| cpg | 396.85 | J/molxK | 809.94 | Joback Method |
| cpg | 405.26 | J/molxK | 849.16 | Joback Method |
| cpg | 412.87 | J/molxK | 888.38 | Joback Method |
| cpg | 419.67 | J/molxK | 927.60 | 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=C20357259&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 |
| 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 |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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