

Methylone M (demethylenyl, 3-O-methyl, nor), 2Ac

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|-----------------------------|--|
| Inchi: | InChI=1S/C14H17NO5/c1-8(15-9(2)16)14(18)11-5-6-12(20-10(3)17)13(7-11)19-4/h5-8H, |
| InchiKey: | NZDJVZBBLUFYRS-UHFFFAOYSA-N |
| Formula: | C14H17NO5 |
| SMILES: | COc1cc(C(=O)C(C)NC(C)=O)ccc1OC(C)=O |
| Mol. weight [g/mol]: | 279.29 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -349.66 | kJ/mol | Joback Method |
| hf | -672.69 | kJ/mol | Joback Method |
| hfus | 34.03 | kJ/mol | Joback Method |
| hvap | 81.46 | kJ/mol | Joback Method |
| log10ws | -2.90 | | Crippen Method |
| logp | 1.328 | | Crippen Method |
| mvol | 210.790 | ml/mol | McGowan Method |
| pc | 2300.32 | kPa | Joback Method |
| rinpol | 1990.00 | | NIST Webbook |
| rinpol | 1990.00 | | NIST Webbook |
| tb | 812.54 | K | Joback Method |
| tc | 1029.12 | K | Joback Method |
| tf | 530.91 | K | Joback Method |
| vc | 0.794 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 606.39 | J/mol×K | 812.54 | Joback Method |
| cpg | 618.59 | J/mol×K | 848.64 | Joback Method |
| cpg | 629.75 | J/mol×K | 884.73 | Joback Method |
| cpg | 639.88 | J/mol×K | 920.83 | Joback Method |
| cpg | 648.98 | J/mol×K | 956.93 | Joback Method |
| cpg | 657.04 | J/mol×K | 993.02 | Joback Method |
| cpg | 664.07 | J/mol×K | 1029.12 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.cheméo.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=R615886&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 |
| hvp: | 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 |
| rinp: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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