

Nifenalol, diacetyl deriv.

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|-----------------------------|--|
| Other names: | Nifenalol, acetylated |
| Inchi: | InChI=1S/C15H20N2O5/c1-10(2)16(11(3)18)9-15(22-12(4)19)13-5-7-14(8-6-13)17(20)21 |
| InchiKey: | ODKUBEOVIIIEYQB-UHFFFAOYSA-N |
| Formula: | C15H20N2O5 |
| SMILES: | CC(=O)OC(CN(C(C)=O)C(C)C)c1ccc([N+](=O)[O-])cc1 |
| Mol. weight [g/mol]: | 308.33 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -43.19 | kJ/mol | Joback Method |
| hf | -439.04 | kJ/mol | Joback Method |
| hfus | 39.98 | kJ/mol | Joback Method |
| hvap | 85.68 | kJ/mol | Joback Method |
| log10ws | -3.63 | | Crippen Method |
| logp | 2.456 | | Crippen Method |
| mvol | 234.860 | ml/mol | McGowan Method |
| pc | 2053.03 | kPa | Joback Method |
| rinpol | 2305.00 | | NIST Webbook |
| rinpol | 2305.00 | | NIST Webbook |
| tb | 867.82 | K | Joback Method |
| tc | 1096.65 | K | Joback Method |
| tf | 565.92 | K | Joback Method |
| vc | 0.885 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 714.06 | J/molxK | 867.82 | Joback Method |
| cpg | 726.82 | J/molxK | 905.96 | Joback Method |
| cpg | 738.44 | J/molxK | 944.10 | Joback Method |
| cpg | 748.96 | J/molxK | 982.24 | Joback Method |
| cpg | 758.44 | J/molxK | 1020.38 | Joback Method |
| cpg | 766.91 | J/molxK | 1058.52 | Joback Method |
| cpg | 774.45 | J/molxK | 1096.65 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U280821&Units=SI |
| 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 |

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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