

# 5,5-Diphenylhydantoin, 3-trifluoroacetyl-

|                             |                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------|
| <b>Inchi:</b>               | InChI=1S/C17H11F3N2O3/c18-17(19,20)14(24)22-13(23)16(21-15(22)25,11-7-3-1-4-8-1 |
| <b>InchiKey:</b>            | RVHBCQFDGYGGMH-UHFFFAOYSA-N                                                     |
| <b>Formula:</b>             | C17H11F3N2O3                                                                    |
| <b>SMILES:</b>              | O=C1NC(c2ccccc2)(c2ccccc2)C(=O)N1C(=O)C(F)(F)F                                  |
| <b>Mol. weight [g/mol]:</b> | 348.28                                                                          |

## Physical Properties

| Property code | Value   | Unit   | Source         |
|---------------|---------|--------|----------------|
| log10ws       | -4.04   |        | Crippen Method |
| logp          | 2.571   |        | Crippen Method |
| mcvol         | 221.990 | ml/mol | McGowan Method |
| rinpol        | 2218.00 |        | NIST Webbook   |

## Sources

|                        |                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Crippen Method:</b> | <a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>                                 |
| <b>Crippen Method:</b> | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                         |
| <b>McGowan Method:</b> | <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>                     |
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U374850&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U374850&amp;Units=SI</a> |

## Legend

|                 |                                     |
|-----------------|-------------------------------------|
| <b>log10ws:</b> | Log10 of Water solubility in mol/l  |
| <b>logp:</b>    | Octanol/Water partition coefficient |
| <b>mcvol:</b>   | McGowan's characteristic volume     |
| <b>rinpol:</b>  | Non-polar retention indices         |

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