

# Chlortoluron, HFBA

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C14H12ClF7N2O2/c1-7-4-5-8(6-9(7)15)24(11(26)23(2)3)10(25)12(16,17)13(18)2

YJWLAPUVCFNLAN-UHFFFAOYSA-N

C14H12ClF7N2O2

Cc1ccc(N(C(=O)N(C)C)C(=O)C(F)(F)C(F)(F)C(F)(F)F)cc1Cl

408.70

## Physical Properties

| Property code | Value    | Unit    | Source         |
|---------------|----------|---------|----------------|
| gf            | -1243.21 | kJ/mol  | Joback Method  |
| hf            | -1623.56 | kJ/mol  | Joback Method  |
| hfus          | 38.03    | kJ/mol  | Joback Method  |
| hvap          | 62.71    | kJ/mol  | Joback Method  |
| log10ws       | -5.02    |         | Crippen Method |
| logp          | 4.496    |         | Crippen Method |
| mcvol         | 232.090  | ml/mol  | McGowan Method |
| pc            | 1687.95  | kPa     | Joback Method  |
| rinpol        | 1720.00  |         | NIST Webbook   |
| rinpol        | 1720.00  |         | NIST Webbook   |
| tb            | 711.61   | K       | Joback Method  |
| tc            | 897.47   | K       | Joback Method  |
| tf            | 505.11   | K       | Joback Method  |
| vc            | 0.901    | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 654.03 | J/mol×K | 711.61          | Joback Method |
| cpg           | 665.45 | J/mol×K | 742.59          | Joback Method |
| cpg           | 675.97 | J/mol×K | 773.56          | Joback Method |
| cpg           | 685.68 | J/mol×K | 804.54          | Joback Method |
| cpg           | 694.65 | J/mol×K | 835.52          | Joback Method |
| cpg           | 702.97 | J/mol×K | 866.49          | Joback Method |
| cpg           | 710.71 | J/mol×K | 897.47          | Joback Method |

# Sources

|                        |                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Crippen Method:</b> | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                         |
| <b>Joback Method:</b>  | <a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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=R220250&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R220250&amp;Units=SI</a> |
| <b>Crippen Method:</b> | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>                                 |

# Legend

|                 |                                                 |
|-----------------|-------------------------------------------------|
| <b>cpg:</b>     | Ideal gas heat capacity                         |
| <b>gf:</b>      | Standard Gibbs free energy of formation         |
| <b>hf:</b>      | Enthalpy of formation at standard conditions    |
| <b>hfus:</b>    | Enthalpy of fusion at standard conditions       |
| <b>hvap:</b>    | Enthalpy of vaporization at standard conditions |
| <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>pc:</b>      | Critical Pressure                               |
| <b>rinpola:</b> | Non-polar retention indices                     |
| <b>tb:</b>      | Normal Boiling Point Temperature                |
| <b>tc:</b>      | Critical Temperature                            |
| <b>tf:</b>      | Normal melting (fusion) point                   |
| <b>vc:</b>      | Critical Volume                                 |

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