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## Typical Product Specifications & Properties

# Thidiazuron

CAS Number: : 51707-55-2

| Specifications               | Limits                                                                   |
|------------------------------|--------------------------------------------------------------------------|
| Molecular weight             | 220.25                                                                   |
| EINECS                       | 257-356-7                                                                |
| SMILES                       | <chem>O=C(Nc1ccccc1)Nc2cnns2</chem>                                      |
| InChI                        | HFCYZXMHUIHAQI-UHFFFAOYSA-N                                              |
| InChIKey                     | 1S/C9H8N4OS/c14-9(12-8-6-10-13-15-8)11-7-4-2-1-3-5-7/h1-6H,(H2,11,12,14) |
| Vapor Pressure               | 2.30E-11 mm Hg                                                           |
| Henry's Law Constant         | 3.33E-13 atm-m3/mole                                                     |
| pKa Dissociation Constant    | 8.86                                                                     |
| log P (octanol-water)        | 1.77                                                                     |
| Melting Point                | 211 dec &deg; C                                                          |
| Water solubility             | 20 mg/L                                                                  |
| Atmospheric OH Rate Constant | 5.80E-11 cm3/molecule-sec                                                |



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| Specifications      | Limits          |
|---------------------|-----------------|
| Merck               | 13,9384         |
| Melting Point       | 213&deg;C       |
| Storage Temperature | 0-6&deg;C       |
| Solubility          | Soluble in DMSO |



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