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## Typical Product Specifications & Properties

# p-Toluenesulfonyl chloride

CAS Number: : 98-59-9

| Specifications      | Limits                                                                                                           |
|---------------------|------------------------------------------------------------------------------------------------------------------|
| Molecular weight    | 190.65                                                                                                           |
| InChI               | 1S/C7H7ClO2S/c1-6-2-4-7(5-3-6)11(8,9)10/h2-5H,1H3                                                                |
| InChIKey            | YYROPELSRYBVMQ-UHFFFAOYSA-N                                                                                      |
| Stability           | Stable. Substances to be avoided include strong bases and strong oxidizing agents and water. Moisture sensitive. |
| Water solubility    | hydrolyses                                                                                                       |
| Vapor Pressure      | 1 mm Hg ( 88 &deg;C)                                                                                             |
| Storage Temperature | Store at room temperature.                                                                                       |
| BRN Number          | 607898                                                                                                           |
| Flash Point         | 128 &deg;C                                                                                                       |
| Solubility          | methylene chloride: 0.2 g/mL, clear                                                                              |
| Density             | 1,006 g/cm3                                                                                                      |
| Sensitive           | Moisture Sensitive                                                                                               |



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| Specifications               | Limits                                 |
|------------------------------|----------------------------------------|
| Merck                        | 14,9534                                |
| Boiling Point                | 134 &deg;C/10 mm Hg                    |
| Melting Point                | 65-69 &deg;C                           |
| Melting Point                | 71 &deg; C                             |
| Vapor Pressure               | 0.5 mm Hg                              |
| Atmospheric OH Rate Constant | 1.22E-12 cm <sup>3</sup> /molecule-sec |
| Water solubility             | 51.2 mg/L                              |
| log P (octanol-water)        | 3.490                                  |
| Henry's Law Constant         | 9.67E-06 atm-m <sup>3</sup> /mole      |
| RTECS                        | DB8929000                              |
| Color                        | White                                  |
| Form                         | Crystalline Powder                     |



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