



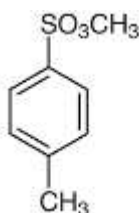
## Certificate of Analysis.

### Methyl-p-Toluene Sulphonate reference standard, AnStan<sup>®</sup>.

|                   |  |
|-------------------|--|
| Product code:     | <b>BS13549.</b>  |
| Description:      | <b>Methyl-p-Toluene Sulphonate reference standard, AnStan<sup>®</sup>.</b> |
| Chemical Name:    | <b>p-Toluenesulfonic Acid Methyl Ester.</b>                                |
| Pack:             | <b>5 ml.</b>   |
| CAS NO.:          | <b>80-48-8.</b>  |
| Mol. Weight:      | <b>186.23 g/mol.</b>   |
| Mol. Formula:     | <b>C<sub>8</sub>H<sub>10</sub>O<sub>3</sub>S.</b>                          |
| Solubility:       | <b>Soluble in chloroform.</b>  |
| MDL Number:       | <b>MFCD00008417.</b>   |
| Melting Point:    | <b>25 °C.</b>  |
| Boiling Point:    | <b>145 °C.</b>   |
| Density:          | <b>1.234 g/ml.</b>   |
| Storage:          | <b>Store at Ambient temperature.</b>                                       |
| LOT NO.:          | <b>Sample.</b>   |
| Manufacture Date: | <b>Lot specific.</b>   |
| Expiry Date:      | <b>5 years.</b>  |

| Test                    | Specification  | Measured Values      |
|-------------------------|--|----------------------|
| Appearance:             | White or Colorless to Light yellow powder to lump to clear liquid. | <b>Lot specific.</b> |
| Identification by NMR:  | Confirms to the structure.   | <b>Lot specific.</b> |
| Identification by MASS: | Confirms to the structure.   | <b>Lot specific.</b> |
| Identification by IR:   | Confirms to the structure.   | <b>Lot specific.</b> |
| Purity by GC:           | >99.8%.  | <b>Lot specific.</b> |

Please Note: - This material is only for laboratory purpose and not for human consumption. This is a computer generated COA, no stamp or signature is required.



  
**Dr. K. Deepti.**  
Technical Head.

