

## PRODUCT IDENTITY

|                 |                                                              |                |                                                   |
|-----------------|--------------------------------------------------------------|----------------|---------------------------------------------------|
| PRODUCT NAME    | (S)-(+)-5-(Hydroxymethyl)-2-pyrrolidinone p-toluenesulfonate | PRODUCT NUMBER | I170736                                           |
| Grades & Purity | ≥95%                                                         | VERSION        | 3                                                 |
| CAS NUMBER      | 51693-17-5                                                   | FORMULA        | C <sub>12</sub> H <sub>15</sub> NO <sub>4</sub> S |
| FORMULA WEIGHT  | 269.32g/mol                                                  |                |                                                   |

## ACCEPTANCE CRITERIA

| PARAMETER                                           | SPECIFICATION / LIMIT           |
|-----------------------------------------------------|---------------------------------|
| Purity(HPLC)                                        | 95-100 (%)                      |
| Specific Rotation [α] <sub>20/D</sub> (c=1 in EtOH) | 6.5-8.5 (°)                     |
| Appearance (I170736)                                | White to Tan Powder or Crystals |
| Proton NMR spectrum                                 | Conforms to Structure           |