

# *Chem-Impex International, Inc.*

---

**Tel:** (630) 766-2112

**E-mail:** sales@chemimpex.com

**Shipping and Correspondence:**

935 Dillon Drive

Wood Dale, IL 60191

**Fax:** (630) 766-2218

**Web site:** www.chemimpex.com

**Manufacturing site:**

825 Dillon Drive

Wood Dale, IL 60191

---

## *Certificate of Analysis*

**Catalogue Number** 10092  
**Lot Number** 000127-1070935  
**Product** **Tosyl-D-proline**

Tos-D-Pro-OH

**CAS Number** 110771-95-4  
**Molecular Formula** C<sub>12</sub>H<sub>15</sub>NO<sub>4</sub>S

**Molecular Weight** 269.32

---

**Appearance** White powder

**Solubility** Clear, colorless solution (50mg/mL in MeOH)

**Melting Point** 57.7 °C

**Water Content (Karl  
Fisher)** 6.3%

**TLC System** Chloroform/Methanol/Toluene/Water (8:8:8:1)  
Chloroform/Methanol/Acetic acid (85:10:5)  
Toluene/Dioxane/Acetic acid (95:25:4)  
Plate: Silica gel 60 F<sub>254</sub>  
Detected by: UV, Ninhydrin, chlorine-tolidine, ammonium molybdate

**Optical Rotation** [α]<sub>D</sub><sup>24</sup> = +153.9° (C=2.3% in H<sub>2</sub>O and 2 aquimolar NaOH)

**Assay by titration** 94% (TBAH)

**Purity by TLC** > 98%

**Storage** Store at 0-8 °C

# *Certificate of Analysis*

Catalog Number: 10092

Lot Number: 000127-1070935

---

**Remarks**

See material safety data sheet for additional information

For laboratory use only

**The foregoing is a copy of the Certificate of Analysis as provided by our supplier**



**Bala Kumar**  
**Quality Control Manager**