

# Chem-Impex International, Inc.

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## Certificate of Analysis

**Catalogue Number** 33473  
**Lot Number** 000129-16088  
**Product** **Spermine(N<sub>3</sub>HHN<sub>3</sub>)•2TsOH**

N<sup>1</sup>,N<sup>4</sup>-Bisazidospermine bistosylate

**CAS Number** 2250433-79-3 (net)  
**Molecular Formula** C<sub>10</sub>H<sub>22</sub>N<sub>8</sub>•2C<sub>7</sub>H<sub>8</sub>O<sub>3</sub>S

**Molecular Weight** 598.7

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**Appearance** White crystalline powder

**Melting Point** 110 - 112 °C

**Assay by titration** 100.8%

**Purity by TLC** > 98%

**Storage** Store at 2-8 °C

**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**