

## Certificate of Analysis.

### Isopropyl Methanesulfonate GC reference standard, AnStan<sup>®</sup>.

Product code:	<b>BS14905.</b>
Description:	<b>Isopropyl Methanesulfonate GC reference standard, AnStan<sup>®</sup>.</b>
Chemical Name:	<b>Methanesulfonic Acid Isopropyl Ester.</b>
Pack:	<b>1 gm.</b>
CAS NO.:	<b>926-06-7.</b>
Mol. Weight:	<b>138.18 g/mol.</b>
Mol. Formula:	<b>C<sub>4</sub>H<sub>10</sub>O<sub>3</sub>S.</b>
MDL Number:	<b>MFCD00047802.</b>
Melting point:	<b>7 °C.</b>
Boiling Point:	<b>67 °C.</b>
Density:	<b>1.145 g/cm<sup>3</sup>.</b>
Solubility:	<b>Soluble in chloroform, methanol.</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:	Colorless to Light yellow 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%.	<b>Lot specific.</b>

Note: - This material is only for laboratory purpose and not for human consumption.

#### **Certification & Traceability:**

This product was manufactured, processed and/or certified under a quality management system that is accredited **ISO 17034:2016 and ISO/IEC 17025:2017**.

The balances used in the preparation of this product are calibrated regularly, using a calibration provider that is accredited to **ISO/IEC 17025**. All standard components used in the manufacture of this product are pre-qualified and verified before use.

Tests were performed for capacity, readability, repeatability and linearity. This product is manufactured, packaged, stored, and shipped in accordance with good manufacturing practices that



is certified to **WHO-GMP**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of **k=2**.

**Validity Period:**

Briti Scientific standards ensures the accuracy of this product for 5 years from the manufacture date given above, provided the instructions for use are followed.

**Quality Certifications:**

This product was prepared under a quality management system that is accredited to the following:

**ISO 17034:2016** Accredited: Reference Materials Producer, CGI Certificate No. WGMP/22N2594 – General Requirements for the Competence of Reference Material Producers.

**ISO 17034** references additional requirements specified in ISO Guide 31 and ISO Guide 35.

**ISO/IEC 17025:2017** Accredited: Chemical Testing, CGI Certificate No. UG/23N256- General Requirements for the Competence of Testing and Calibration Laboratories.

**ISO 9001:2015** Certified: Quality Management Systems, CGI Certificate No. QMS/23N258.

**WHO-GMP** Certified: Good Manufacturing Practices, CGI Certificate No. WGMP/22N2594.

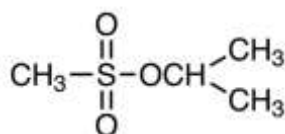
**Homogeneity:**

This product was determined to be homogenous by procedures consistent with the requirements of **ISO 17034** and **ISO Guide 35**. Replicate samples of the finished solution were analysed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability.

**Health and Safety Information:**

Refer to the Safety Data Sheet (SDS), which can be obtained at [www.britisscientific.com](http://www.britisscientific.com).

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

