

## Certificate of Analysis.

**Vanillin melting point reference standard for analytical use – Complies with USP testing methods), AnStan®.**

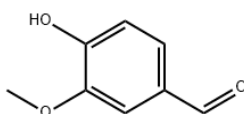
Product code:	<b>BS11226.</b>
Description:	<b>Vanillin melting point reference standard for analytical use – Complies with USP testing methods), AnStan®.</b>
Chemical Name:	<b>4-Hydroxy-3-methoxybenzaldehyde.</b>
Pack:	<b>1 gm.</b>
CAS No.:	<b>121-33-5.</b>
Mol. Weight:	<b>152.15 g/mol.</b>
Mol. Formula:	<b>C<sub>8</sub>H<sub>8</sub>O<sub>3</sub>.</b>
MDL Number:	<b>MFCD00006942.</b>
Boiling point:	<b>284 °C.</b>
Density:	<b>1.06 g/cm<sup>3</sup>.</b>
Solubility:	<b>Soluble in water.</b>
Storage:	<b>Store in a cool and dry place.</b>
Batch No:	<b>Sample.</b>
Manufacture Date:	<b>Lot specific.</b>
Expiry Date:	<b>5 years.</b>

Test	Specification	Measured Values
Appearance (Colour):	White to Light yellow.	<b>Lot specific.</b>
Appearance (Form):	Powder to crystal.	<b>Lot specific.</b>
Purity by GC:	>99%.	<b>Lot specific.</b>
Melting point:	80.5 - 83.5 °C.	<b>Lot specific.</b>

### Comparative Melting point:

Test	In-house LOT (Lot specific)	USP LOT (Lot specific)
Melting point:	<b>Lot specific.</b>	<b>Lot specific.</b>

Please 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 relative initial and final melting points and melting range of organic chemicals is determined by the standard method ASTM E324. This product was analysed according to protocol mentioned in **USP**. The present lot specifications comply with the corresponding **USP** lot specifications.



**USA:** #1004, Boston, Massachusetts, 02116, United States. **India:** Jeedimetla, Hyderabad-500 055, Telangana.

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

**ISO 17034:2016:** 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:** 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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