

## **Technical Data Sheet (TDS)**

### **Vanillin**

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### Product Description

Vanillin is a white to pale yellow crystalline powder with a characteristic and pleasant vanilla odor. It is the primary component of the extract of the vanilla bean and is widely used as a flavoring agent in foods, beverages, cosmetics, and pharmaceuticals. Vanillin is also used as an intermediate in the synthesis of agrochemicals and other fine chemicals.

### Applications

- Flavoring agent in baked goods, dairy products, beverages, and confectionery.
- Fragrance ingredient in perfumes and toiletries.
- Taste masking and aromatic component in pharmaceutical formulations.
- Intermediate in the production of agrochemicals and synthetic resins.

### Chemical Information

Chemical Name: Vanillin

Chemical Formula:  $C_8H_8O_3$

CAS No.: 121-33-5

EINECS No.: 204-465-2

Molecular Weight: 152.15 g/mol

### Specifications

Appearance: White to pale yellow crystalline powder

Purity: min. 99.0%

Odor: Sweet, creamy vanilla-like aroma

Melting Point: 81-83 °C

Solubility: Soluble in ethanol, ether, chloroform, slightly soluble in water

Loss on Drying: max. 0.5%

Residue on Ignition: max. 0.1%

### Typical Properties

Boiling Point: 285 °C

Flash Point: >160 °C

Bulk Density: approx. 0.6 g/cm<sup>3</sup>

Stability: Stable under standard storage conditions

### Packaging

Vanillin is supplied in 25 kg fiber drums or cartons lined with polyethylene bags. Custom packaging is available on request. All packaging conforms to export and transport regulations.

### Storage and Handling

- Store in cool, dry, and well-ventilated areas away from heat and direct sunlight.
- Keep containers tightly sealed.
- Avoid prolonged exposure to moisture.
- Handle using protective equipment according to standard safety practices.

### Safety and Regulatory Information

- Not classified as hazardous under normal handling conditions.
- Approved by FDA and listed as GRAS (Generally Recognized as Safe).
- Included in major international food additive regulations.
- Refer to MSDS for detailed safety and environmental information.

### Disclaimer

This document is for informational use only. Tuoda Industry Limited makes no guarantee as to the accuracy or applicability of this product for any particular purpose. It is the user's responsibility to confirm regulatory compliance before application.