

Products: **Vanillin**

Cat. No. 3700-2200

Section I - General

CAS#: [121-33-5]
FORMULA: $\text{CH}_3\text{OC}_6\text{H}_3(\text{OH})\text{CHO}$
CHEMICAL NAME: 4-Hydroxy-3-methoxybenzaldehyde
SYNONYMS: m-Anisaldehyde, vanilla, vanillaldehyde, vanillic aldehyde
CHEMICAL FAMILY: Aldehyde and phenol

Section II - Hazardous Ingredients

1: 99.9 + % Vanillin

Section III - Physical Data

MELTING POINT: 81-83 °C
BOILING POINT: 170 °C @ 15 mm Hg
APPEARANCE: White crystalline needle
ODOR: Mild vanilla odor
SOLUBILITY: Soluble in water (1 gm/100 mL; 1 gm/16 mL @ 80°C), alcohol, glycerol, chloroform, ether, glacial acetic acid; oils, and aq solutions of alkali hydroxides.
AIR SENSITIVE: Yes
LIGHT SENSITIVE: Yes

Section IV - Toxicity Data

RTECS #: YW5775000
RTECS NAME: Vanillin
TOXICITY: Oral LD₅₀ (rat): 1580 mg/kg, lpr-rat LD₅₀: 1160 mg/kg; Scu-rat LD₅₀: 1500 mg/kg; Orl-mus LD₅₀: 4330 mg/kg; lpr-mus LD₅₀: 475 mg/kg; Orl-gpg LD₅₀: 1400 mg/kg
REVIEWS: Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data are presented here. Refer to actual entry in RTECS for complete information.

Section V - Health Hazard and First Aid



ACUTE EFFECTS: Harmful if swallowed. May be harmful if inhaled or absorbed through the skin. Cause eye irritation. May cause skin irritation.

TARGET ORGANS: Sense organs (miosis), behavioral (muscle weakness, coma), vascular (acute arterial occlusion), lungs, thorax, maternal effects (ovaries, fallopian tubes, uterus, cervix, vagina).

EYE CONTACT: Immediately flush with plenty of water for at least 15 minutes; assure adequate flushing by separating eyelids with fingers. Get medical assistance.

SKIN CONTACT: Immediately flush with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical assistance.

INHALATION: Remove to fresh air. If breathing becomes difficult, give oxygen. If not breathing give artificial respiration. Get medical assistance immediately.

INGESTION: Wash out mouth with water provided person is conscious. Get medical assistance immediately.

Section VI - Fire and Explosion Hazards

FLASHPOINT: Not flammable.

EXTINGUISHING MEDIA: Water spray; dry chemical; carbon dioxide; alcohol or polymer foam.

FIREFIGHTING PROCEDURE: Wear self-contained breathing apparatus and protective clothing to protect contact with skin and eyes.

UNUSUAL HAZARDS & EXPLOSIVE PROPERTIES: Not explosive.

Section VII - Reactivity

GENERAL: Slowly oxidizes on exposure to moist air. Affected by light.

INCOMPATIBILITIES: Incompatible with strong oxidizers, strong bases, and strong reducing agents.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS: Carbon dioxide and carbon monoxide.

Section VIII - Spill or Leak Procedures

SPILL PROCEDURE: Wear safety goggles and gloves. Soak up spill with rags, paper towels, sponge; place in a bag and hold for waste disposal. Ventilate area and wash spill-site with soap and water.

WASTE DISPOSAL: This product may be mixed or dissolved in a combustible solvent and burned in a chemical incinerator equipped with an after burner and scrubber. Observe all federal, state, and local regulations.



MATERIAL SAFETY DATA SHEET

Section IX - Precautions for Handling and Storage

SAFETY	
EQUIPMENT:	Chemical safety goggles, laboratory coat, rubber / latex / vinyl gloves, safety-shower with eye-wash.
HANDLING	
PROCEDURES:	Avoid eye and skin contact and inhalation. Do not ingest. Wear safety glasses and gloves. Wash thoroughly after handling.
STORAGE	
PROCEDURES:	Keep tightly closed (air, light, and moisture sensitive). Store in a cool dry place.

This information is believed to accurate and represents the best information currently available to us. IT is offered only for your consideration, investigation, and verification. Pickering Laboratories disclaims any liability incurred from the use of this product and shall not in any event be liable for any special, incidental, or consequential damages arising from such use. The information provided herein relates only to the specific product designated and may not be valid where such product may be subject to federal, state, or local laws or regulations.