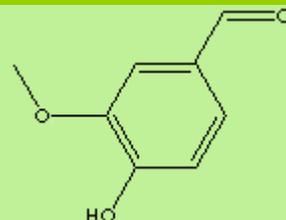


# VANILLIN

## PRODUCT IDENTIFICATION

CAS NO.	121-33-5
EINECS NO.	204-465-2
FORMULA	$\text{HOC}_6\text{H}_3(\text{OCH}_3)\text{CHO}$
MOL WT.	152.15
H.S. CODE	2912.41
TOXICITY	Oral rat LD50: 1580 mg/kg
SYNONYMS	4-Hydroxy-3-methoxybenzaldehyde;



3-Methoxy-4-hydroxybenzaldehyde; p-Hydroxy-m-methoxybenzaldehyde; Vanillic aldehyde; 2-Methoxy-4-formylphenol; 4-Formyl-2-methoxyphenol; 4-Hydroxy-5-methoxybenzaldehyde; Vanilla; 4-hydroxy-m-Anisaldehyde; methyl-protocatechualdehyde; p-Vanillin; 4-Hydroxy-m-anisaldehyde; Vanillaldehyde; m-Methoxy-p-hydroxybenzaldehyde;

## DERIVATION

## CLASSIFICATION

## PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	White to light yellow powder or crystals
MELTING POINT	81 - 83 C
BOILING POINT	285 C
SPECIFIC GRAVITY	1.056
SOLUBILITY IN WATER	Slightly soluble
pH	
VAPOR DENSITY	5.2
REFRACTIVE INDEX	Health: 1; Flammability: 1; Reactivity: 0
NFPA RATINGS	
AUTOIGNITION	
FLASH POINT	147 C
STABILITY	Slowly oxidizes in contact with moist and air. Light sensitive

## GENERAL DESCRIPTION & APPLICATIONS

Vanilla is a plant belongs to the family Orchidaceae, native to tropical American forests. Both *V. planifolia* Andr. (Mexican or Bourbon vanilla) and *V. tahitensis* Moor (Tahitian vanilla) have fruits called vanilla beans which are picked before fully matured. Vanilla is a choice of flavoring agent prepared from vanilla beans with or without the addition of sugar, dextrose, or glycerol. Vanilla extract contains soluble matter from not less than 10 grams of vanilla beans in 100 milliliters. Vanillin (chemically 4-hydroxy-3-methoxybenzaldehyde) is a constituent of vanilla or is prepared synthetically.

Vanillic acid: the oxidation form of vanillin. The chemical designation is 4-hydroxy-3-methoxybenzoic acid.

Ethamivan: the diethylamide of vanillic acid; used as a central nervous system stimulant, respiratory stimulant, and analeptic.

Ethyl vanillin: white to pale yellow crystal; melting 76.5 C; having 3.5 times stronger flavour and more stable in organic solvents and in storage than vanillin but does not have the true flavour. It is used in pharmaceutical preparations and the food industry as a flavoring agent to replace

or strengthen vanilla.

Acetovanillon: white crystal a faint vanilla odor; melting point 115 C; soluble in hot water, alcohol, benzene, chloroform, and ether; used as a cardiotonic drug. Chemical naming is 4'-Hydroxy-3'-methoxyacetophenone.

**SALES SPECIFICATION**

APPEARANCE White to light yellow crystalline powder

PURITY (G.C.) 99.0% min

MELTING POINT 81 - 83 C

LOSS ON DRYING 0.5% max

HEAVY METALS 10ppm max

**TRANSPORTATION**

PACKING 25kgs in bag

HAZARD CLASS

UN NO.

**OTHER INFORMATION**