Rhovanil[®]



Product Data Sheet Rhovanil® - APF PDS RVFG – October 2021

Vanillin for Food & Flavors

RHOVANIL[®] is a white to slightly off-white crystalline powder, with a typical vanilla flavor note. This vanillin offers the highest purity level commitment on the market with a minimum of 99.95%.





Food safety and hygiene certification:

 $Rhovanil^{\textcircled{0}}$ is produced from on-site upstream integrated process guaranteed with low environmental impact.

The Quality and Food Safety management systems in place in our manufacturing facilities are **certified according to FSSC** 22000 (Food Safety System Certification). This ensures that manufacturing is performed in respect with best practices in terms of food safety and hygiene (efficient HACCP method in place, as defined in EU Regulation 852/2004 and Codex Alimentarius). Our production sites are also ISO 9001 certified.

Rhovanil[®] is certified Kosher and Halal. Certificates are available upon request.

Identification:

N° CAS:121-33-5SYNONYM:Vanillin; 4-Hydroxy-3- Methoxybenzaldehyde

Specifications:

Molecular Weight: Methoxybenzaldehyde

C₈H₈O₃ MW = 152.15 g/mol

CHARACTERISTICS	LIMITS	METHODS
Appearance and color of solid	White to off-white crystalline powder	Visual
Identity	Conforms to standard	Guaranteed Conformity
Odor / Flavor	Typical vanilla note	Compared to reference
Assay (on dried basis)	99.95 % min	HPLC
Color (solution in ethanol)	35 Hazen max	Colorimetry
Melting point	81.0 – 83.0°C	Capillary
Sulfated ashes	0.05 % max	Calcination / Mineralisation
Loss on drying (moisture)	0.06 % max	Gravimetry
Heavy metals (as lead)	10 ppm max	Limit Test or ICP
Arsenic (as As)	0.3 ppm max	AAS / ICP
Total Chlorine	Proven absence	-
Benzene	Proven absence	-
Toluene	Proven absence	-

The analytical methods used are described in our current quality control standards. Based on our rigorous process control and capabilities, some of these analyses can be performed on a statistical frequency for example organoleptic testing, ... Methods are available upon request. **Rhovanil**[®] meets the requirements of the **Food Chemical Codex, if tested**.

Microbiology: Rhovanil[®] itself has some bacteriostatic properties and the microbial contaminants listed in the European Regulation EC 2073/2005 (on microbial criteria for foodstuffs) are regularly monitored in **Rhovanil[®]** (please refer to our detailed Quality brochure).

Rhovanil[®]

Applications:

Rhovanil[®] can be used in flavor formulations, but also in:

- Chocolate: plain (dark) & milk chocolate, chocolate bars, chips, coatings, powders, spreads

- Confectionery: soft center sweets, candies, caramels, nougat, chewing gums, all other sweets

- Baking: cakes, cookies, pastries, waffles, muffins, breakfast cereals, baking mixes, vanillin flavored sugars

- Beverages: soft drinks, sodas, syrups, instant beverages, chocolate flavored drinks, drinking yoghurts

- Dairy: fresh products flavored and condensed milks, desserts, puddings, flans, yoghurts, sorbets, ice-cream.

The product is not intended for direct consumption, in accordance with the definition of Flavouring substance, as defined in the European Regulation EC 1334/2008.

Rhovanil® can also be used in Fragrance applications and in pharmaceutical applications as excipient or starting raw material for Active Pharmaceutical Ingredient.

Physico-chemical properties:

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Bulk density	. Around 0,35 (indicative value)
Specific weight (20°C)	1056 kg/m ³
Boiling point (13,3 hPa or 10 mmHg).	154°C
Boiling point (at 760 mmHg)	
Flash Point (closed cup at 1022hPa) .	
Solubility	
In ethanol (90% at 20°C)	Easily soluble: 620 g/l
In ethanol (70% at 20°C)	Easily soluble: 430 g/l
In ethanol (95% at 25°C)	Soluble (1 g in 2 ml)
In ethanol (70% at 25°C)	Soluble (1 g in 3 ml)

Regulatory compliance, labeling:

Labeling EU: "Vanilla flavour" or "flavour". Labeling US: "Artificial vanilla flavor". Labeling China: "Food Additive". Labeling Philippines: "Nature-Identical flavor". Rhovanil® complies with nature-identical definition of flavoring substance where still applicable.

Rhovanil® complies with the Food safety and Hygiene standards of the European Regulations n° 178/2002 and n° 852/2004 and with the European Flavour Regulation EC nº 1334/2008 as modified, Rhovanil® is defined as a "flavouring substance" in Europe. It also complies with the EU Directive EC 2009/32 & its subsequent amendments relating to extraction solvents used in the manufacture of foodstuffs. We ensure no use of toluene and benzene at any stage of the process. Only solvent in Annex I part 1 is used: extraction solvent to be used in compliance with GMP for all uses, without any restricted limit.

Rhovanil® complies with FDA 21 CFR 117, 21 - Part 182.60: GRAS FEMA n° 3107

Rhovanil® meets the requirements of Food Chemicals Codex if tested, complies with Vanillin quality Standard GB 1886.16-2015 and with Standards for use of Food Additives GB 2760 in China. Rhovanil® meets the requirements of nature-identical definition of flavoring substance according to Administrative Order N°2014-0030 of the Republic of the Philippines.

GMO: Does not contain any GMO or any material derived from genetically modified origin, is not manufactured from GMO, and therefore is not subject to labeling requirements according to European Regulations (EC) N°1829/2003 & N°1830/2003.

Allergens: please refer to the separate allergen lists according to Regulation (EC) No 1169/2011

Contaminants listed in the European Regulation EC 1881/2006 (setting the maximum levels of certain contaminants in foodstuffs) are not expected to be present (please refer to our detailed Regulatory brochure).

Rhovanil[®] is suitable for vegetarian and vegan diets.

If tested, it would meet the chemical specifications of the following monographs: United States Pharmacopoeia and European Pharmacopoeia.

Rhovanil® may be used as pharmaceutical excipient or starting raw material to be chemically transformed by pharmaceutical industries. As such the product is not produced under pharma cGMP conditions but under Food GMP conditions (FSSC 22000 standard).

Regulatory inventories: Vanillin is registered in the following inventories: TSCA (USA); AIIC (Australia); DSL (Canada); IECSC (China); EINECS (EU); KECI (Korea); ENCS (JAPAN), NZIOC (New Zealand); PICCS (Philippines), INSQ (Mexico), TCSI (Taiwan), TECI (Thailand).

Vanillin has been REACH registered. The registration number is: 01-2119516040-60-0000.

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Transport:

Not regulated. For more details please consult our Safety Data Sheet.

Shelf Life:

Rhovanil[®] is guaranteed 5 years from its manufacturing date, according to the following conditions:

- Containers should be tightly closed, kept in the packaging of origin, away from light, heat and humidity in premises suitable for food products.

- avoid contamination by any aromatic product as well as usage of containers made of iron, steel or aluminum (and its alloys).

The product may have a tendency to form aggregates (due to combination of temperature and humidity) which are easy to break when utilizing the product. This does not induce any Food Safety risk. Moreover due to possible temperature variations during transport, minor condensation of water droplets could be observed on the inner liner, which is an intrinsic property of the product and does not induce any Food Safety risk.

We guarantee minimum of 80% of remaining shelf life upon delivery at the customer premises.

Packaging:

- 25 kg box with 1 polyethylene liner bag on a 300 kg pallet (2 levels, 6 boxes / level): Baton-Rouge, USA, or on a 600 kg pallet (4 levels, 6 boxes / level): Saint-Fons, France
- 25 kg box containing 2 polyethylene liner bags of 12.5 kg, 300 kg on a plastic pallet (2 levels, 6 boxes / level) or 600 kg pallet (4 levels, 6 boxes / level): Zhenjiang, China
- 250 kg Big Bags on pallet : Saint-Fons, France
- 1 kg metal can with 1 polyethylene liner bag (upon request).