



Product Data Sheet Rhovaniil® - APF PDS RVFG – June 2024

min.
99.95 %
The highest purity
commitment



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:

Rhovaniil® 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.

Rhovaniil® is certified Kosher and Halal. Certificates are available upon request.

Identification:

N° CAS: 121-33-5

SYNONYM: Vanillin; 4-Hydroxy-3- Methoxybenzaldehyde

EMPIRICAL FORMULA:

$C_8H_8O_3$

MOLECULAR WEIGHT:

MW = 152.15 g/mol

Specifications:

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
Benzene	Proven absence	-
Toluene	Proven absence	-



Applications:

Rhovani[®] 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.

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

Physico-chemical properties:

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)	.....	284-285°C
Flash Point (closed cup at 1022hPa)	.....	160°C
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 Vanillin".

Rhovani[®] complies with nature-identical definition of flavoring substance where still applicable.

Rhovani[®] 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 n° 1334/2008 as modified, Rhovani[®] 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.

Rhovani[®] complies with FDA 21 CFR 117, 21CFR182.60: GRAS FEMA n° 3107

Rhovani[®] 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. Rhovani[®] 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 (UE) 2023/915 (setting the maximum levels of certain contaminants in foodstuffs) are not expected to be present (please refer to our detailed Regulatory brochure).

Rhovani[®] 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.

Rhovani[®] 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).

Rhovani[®] complies with the requirements of the code of practice of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA - 51 st amendment). Vanillin is listed in ANNEX III of Regulation (EC) No 1223/2009, labelling obligation on the final cosmetic product can apply.

Regulatory inventories: Vanillin is listed 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 EU and KKDIK registered. The registration numbers are: 01-2119516040-60-0000(REACH EU) and 01-0000476284-08-0000 (KKDIK). Please contact your usual commercial contact for additional REACH EU and KKDIK compliance information and in case of purchase from a legal entity outside the European Economic Area and/or Turkey.

Transport:

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

Shelf Life:

Rhovani[®] 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, on a 300 kg (2 levels, 6 boxes / level) or on a 600 kg pallet (4 levels, 6 boxes / level): Zhenjiang, China
- 1 kg metal can with 1 polyethylene liner bag (upon request).

