

# Product Information

## Product Data Sheet

### Pyridoxine Hydrochloride

Product code: 0411604

#### Description

Pyridoxine Hydrochloride is a practically odorless, crystalline powder. It melts at about 205 °C with decomposition.

#### Product identification

Product code: 0411604

**Chemical names:** 2-methyl-3-hydroxy-4,5-bis (hydroxymethyl) pyridine hydrochloride; 5-hydroxy-6-methyl-3,4-pyridinedimethanol hydrochloride; 5-hydroxy-6-methyl-3,4-pyridinecarbinol hydrochloride; 4,5-bis (hydroxymethyl)-2-methylpyridine-3-ol hydrochloride

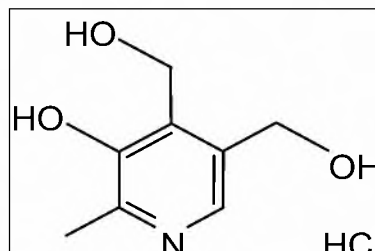
**Synonyms:** pyridoxine hydrochloride; pyridoxol hydrochloride; vitamin B<sub>6</sub> hydrochloride; vitamin B<sub>6</sub>

CAS No.: 58-56-0

EINECS No.: 200-386-2

Empirical formula: C<sub>8</sub>H<sub>11</sub>NO<sub>3</sub> • HCl

Molecular mass: 205.64 g/mol



#### Specifications

<b>Appearance:</b>	white or almost white powder
<b>Solution 5% in water:</b>	clear and not more intensely colored than reference solution Y7
<b>pH of solution 5% in water:</b>	2.4-3.0
<b>Identity:</b>	corresponds
<b>Loss on drying:</b>	max. 0.5 %
<b>Sulphated ash (residue on ignition):</b>	max. 0.1 %

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<b>Lead:</b>	max. 1.0 ppm
<b>Related substances:</b>	
• Impurity A	max. 0.10 %
• Impurity B	max. 0.10 %
• Unspecified impurities (each)	max. 0.10 %
• Total* impurities	max. 0.2 %
*disregard limit	max. 0.05 %
<b>Chloride content:</b>	16.9-17.6 % (on dry material)
<b>Residual solvents:</b>	
• Acetone	max. 5000 ppm
<b>Assay:</b>	99.0-100.5 % (on dry material)

### Solubility

Pyridoxine Hydrochloride is freely soluble in water (approx. 20 g per 100 mL), slightly soluble in ethanol, and insoluble in ether and chloroform.

### Stability and storage

Pyridoxine Hydrochloride is fairly stable to air and heat if protected from light and humidity. The product may be stored for 36 months from the date of manufacture in the unopened original container and at a temperature below 25 °C. The 'best use before' date is printed on the label. Aqueous solutions, especially in the neutral or alkaline range, are sensitive to air and light; decomposition is accelerated in the presence of metals, in particular iron.

### Uses\*

For use as ingredient in dietary/food supplements and food & beverage applications.

Suitable for use in foods for infants and young children, food for other vulnerable groups as well as in dietetic foods for use under medical supervision.

*\*Product regulatory status and clearance vary depending on countries, check with regional DSM RA for local status. More details can be found on the product technical uses in the regional product catalogue/customer portal. This product is not supported for use in pharmaceutical applications because product quality is assured with Food GMP standards.*

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### Compendial compliance

The active ingredient Pyridoxine Hydrochloride, in this form, complies with the specification requirements stipulated in the USP, FCC and Ph. Eur. when tested according to these monographs.

### Safety

This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene.

For full safety information and necessary precautions, please refer to the respective DSM Material Safety Data Sheet.

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#### Additional information

To find out more about our ingredients, please contact your nearest DSM Nutritional Products office.

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