Technical Data Sheet

POTASSIUM SORBATE

Version 05 | Revision date: Sep. 10th, 2025

Formula: C6H7KO2
Molecular weight: 150.22
Grade: Pharma Grade
Standard: ChP 2025/USP

Specification

Item	Specification
Appearance	White or off-white scaly or granular crystals or crystalline powder
Solubility	Freely soluble in water, slightly soluble in ethanol
Identification	(1) In the chromatogram recorded under Assay, the retention time of the test solution corresponds to that of the principal peak of the reference solution; (2) The infrared absorption spectrum corresponds to the reference spectrum (see attached figure); (3) The aqueous solution gives reaction (1) of potassium salts
Acidity/Alkalinity	Complies with the test
Clarity and colour of solution	Clear and colourless; if coloured, not deeper than reference solution yellow No. 2
Chlorides	max. 0.016%
Sulphates	max. 0.035%
Aldehydes	max. 0.15%
Related substances	max. 0.5% (the sum of all impurity peak areas is not more than 2.5 times the area of the principal peak of the reference solution)
Loss on drying	max. 1.0%
Heavy metals	max. 10 ppm
Potassium	24.5% - 27.6%
Assay	98.0% - 102.0% (calculated on the dried basis, as C6H7KO2)
Microbiological limit Total aerobic count Yeast and mould	 max. 10^3 cfu/g max. 10^2 cfu/g

Other properties

Category: Preservative (antimicrobial).

Standard

Chinese Pharmacopoeia 2025 Edition, Part IV， and USP.

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Storage

Preserve in well-closed containers, protected from light.

Shelf life: 24 months from the date of manufacture.

Packaging

500 g/bottle, 1000 g/bag, 25 kg/bag.

25 kg — inner medicinal low-density polyethylene bag, outer paper-plastic composite bag.

1000 g — inner medicinal low-density polyethylene bag, outer aluminium-plastic film.

500 g — high-density polyethylene medicinal plastic bottle.

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