JINNENG SCIENCE & TECHNOLOGY CO., LTD.
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Revised on Jan.1,2012

Specification of Potassium Sorbate Granular

Chemical name: 2,4-Hexadienoic acid, Potassium salt **Chemical formula:** $C_6H_7KO_2$

Relative molecular mass: 150.22

Description: White or off-white granular, slight characteristic odor, freely soluble in water(approx.1400g/L at 20℃), less soluble in ethyl alcohol (approx.1g/L at 20℃)and practically insoluble in ether. It decomposes at about 270℃.

Functional use: Preservative (food grade), antimicrobial agent

CAS NO.: 590-00-1/ 24634-61-5 **E number:** E 202 **EINECS number:** 246-376-1

Date of expiry: 2 years

Identification: Ultra-violet absorption: UV-Maximum264±2mm(solution of 0.002g/L in water at PH＜3)
Test for potassium sorbate: Positive

Store & Package: pack in 500kgs super sacks or 50lbs carton;
store in tight containers, protected from light, avoid exposure to excessive heat

Items	**Index**
Appearance	White or off white granular
Melting range	133-135℃
Acidity(as sorbic acid)	Passes test (≤ 1%)
Free alkalinity (as K_2CO_3), %	Passes test (≤ 1%)
Loss on drying (105℃ for 3 h), %	≤1.0%
Assay (on dry weight basis)%	99.0%~101.0% of $C_6H_7KO_2$, on dry weight basis
pH-Value (10% water solution)	8.5-10.5
Heavy metals(as lead), ppm	≤10ppm
Lead, ppm	≤ 2ppm
Aldehydes (as formaldehyde) %	≤0.1%
Arsenic, ppm	≤3ppm
Zinc, ppm	≤0.1ppm
Cadmium, ppm	≤0.02 ppm
Chloride, ppm	≤180ppm
Sulfate(as SO_4) , ppm	≤380ppm
Mercury, ppm	≤1ppm
Heat Stability	No discoloration after 24 hours at 105℃

The quality of our potassium sorbate meets international standards such as:

- **EC Directives**
- **European Pharmacopoeia (EP)**
- **Food Chemical Codex (FCC)**
- **Purity requirements of the FAO/WHO**
- **GB 13736-2008**
- **NF**

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Revised on Jan.1,2012

Specification of Potassium Sorbate Powder

Chemical name: 2,4-Hexadienoic acid, Potassium salt **Chemical formula:** $C_6H_7KO_2$

Relative molecular mass: 150.22

Description: White or off-white powder, slight characteristic odor, freely soluble in water(approx.1400g/L at 20℃), less soluble in ethyl alcohol (approx.1g/L at 20℃)and practically insoluble in ether. It decomposes at about 270℃.

Functional use: Preservative (food grade), antimicrobial agent

CAS NO.: 24634-61-5 **E number:** E 202 **EINECS number:** 246-376-1

Date of expiry: 2 years

Identification: Ultra-violet absorption: UV-Maximum264±2mm(solution of 0.002g/L in water at PH＜3)
Test for potassium sorbate: Positive

Store & Package: pack in 25kgs or 20kg carton;
store in tight containers, protected from light, avoid exposure to excessive heat

Items	**Index**
Appearance	White or off white powder
Melting range	133-135℃
Acidity(as sorbic acid)	Passes test (≤ 1%)
Free alkalinity (as K_2CO_3), %	Passes test (≤ 1%)
Loss on drying (105℃ for 3 h), %	≤1.0%
Assay (on dry weight basis)%	98.0%~101.0% of $C_6H_7KO_2$, on dry weight basis
pH-Value (10% water solution)	8.5-10.5
Heavy metals(as lead), ppm	≤10ppm
Lead, ppm	≤ 2ppm
Aldehydes (as formaldehyde) %	≤0.1%
Arsenic, ppm	≤3ppm
Zinc, ppm	≤0.1ppm
Cadmium, ppm	≤0.02 ppm
Chloride, ppm	≤180ppm
Sulfate(as SO_4) , ppm	≤380ppm
Mercury, ppm	≤1ppm
Heat Stability	No discoloration after 24 hours at 105℃

The quality of our potassium sorbate meets international standards such as:

- **EC Directives**
- **European Pharmacopoeia (EP)**
- **Food Chemical Codex (FCC)**
- **Purity requirements of the FAO/WHO**
- **GB 13736-2008**
- **NF**

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Revised on Jan.1,2012

Specification of Potassium Sorbate Spherical

Chemical name: 2,4-Hexadienoic acid, Potassium salt **Chemical formula:** $C_6H_7KO_2$

Relative molecular mass: 150.22

Description: White or off-white spherical, slight characteristic odor, freely soluble in water(approx.1400g/L at 20℃), less soluble in ethyl alcohol (approx.1g/L at 20℃)and practically insoluble in ether. It decomposes at about 270℃.

Functional use: Preservative (food grade), antimicrobial agent

CAS NO.: 24634-61-5 **E number:** E 202 **EINECS number:** 246-376-1

Date of expiry: 2 years

Identification: Ultra-violet absorption: UV-Maximum264±2mm(solution of 0.002g/L in water at PH＜3)
Test for potassium sorbate: Positive

Store & Package: pack in 500kgs super sacks or 50lbs carton;
store in tight containers, protected from light, avoid exposure to excessive heat

Items	Index
Appearance	White or off white spherical
Melting range	133-135℃
Acidity(as sorbic acid)	Passes test (≤ 1%)
Free alkalinity (as K_2CO_3), %	Passes test (≤ 1%)
Loss on drying (105℃ for 3 h), %	≤1.0%
Assay (on dry weight basis)%	98.0%~101.0% of $C_6H_7KO_2$, on dry weight basis
pH-Value (10% water solution)	8.5-10.5
Heavy metals(as lead), ppm	≤10ppm
Lead, ppm	≤ 2ppm
Aldehydes (as formaldehyde) %	≤0.1%
Arsenic, ppm	≤3ppm
Zinc, ppm	≤0.1ppm
Cadmium, ppm	≤0.02 ppm
Chloride, ppm	≤180ppm
Sulfate(as SO_4) , ppm	≤380ppm
Mercury, ppm	≤1ppm
Heat Stability	No discoloration after 24 hours at 105℃

The quality of our potassium sorbate meets international standards such as:

- **EC Directives**
- **European Pharmacopoeia (EP)**
- **Food Chemical Codex (FCC)**
- **Purity requirements of the FAO/WHO**
- **GB 13736-2008**
- **NF**

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Revised on Jan.1,2012

Specification of Sorbic Acid

Chemical name： 2,4-Hexadienoic acid
Chemical formula： $C_6H_8O_2$
Relative molecular mass： 112.13
Description: colorless needles or a white to off-white, free-flowing powder, one g dissolves in about 10ml of ethanol, in about 20ml of ether and slightly soluble in water(approx.1.2g/L at 20℃)
Functional use： Preservative (food grade); mold inhibitor
CAS NO.： 110-44-1 **EINECS number:** 203-768-7 **E number:** E 200
Date of expiry: 2 years
Identification: UV-Maximum at 254±2 nm (solution: 2.5μg/ml in isopropanol)
Packaging & Storage: pack in 25kgs bag or carton, store in tight containers, protected from light, and avoid exposure to excessive heat, preferably at a temperature at exceeding 38℃

Purity	**Index**
Appearance	White or off-white crystalline powder
Identification	Passes test
Assay	99.0%-101.0%(on the anhydrous basis)
Loss on drying (Karl Fischer)	Not more than 0.5%
Melting range	132-135℃
Residue on ignition	Not more than 0.2%
Arsenic	Not more than 3 ppm
Aldehydes (as formaldehyde)	Not more than 0.1%
Heavy metals(as Pb)	Not more than 10ppm
Mercury	Not more than 1 ppm
Lead	Not more than 2 ppm

The quality of our sorbic acid meets international standards such as:

- EC Directives
- European Pharmacopoeia (EP)
- Food Chemical Codex (FCC)
- Purity requirements of the FAO/WHO
- GB 1905-2000
- NF