



## Technical Data Sheet

01.01.2024

### Potassium Sorbate



Quality	FCC X
Function	Antimicrobial agent; preservative
Shelf life	2 years
Chem. Name	Potassium(E,E)-hexa-2,4-dienoate
Formula	$\text{C}_6\text{H}_7\text{KO}_2$
Molecular weight	150.22
CAS-No.	590-00-1
Customs tariff No.	2916-1980
Packaging and storage	Store in tight containers

Parameters	Specification
Appearance	White Granular or white powder
Heat stability	no change in colour after heating for 90 minutes at 105 °C
Identification	Add a few drops of bromine TS to 2 mL of the sample solution, the color disappears
Assay	99,0 – 101,0%
Loss on Drying	NMT 1,0%
Alkalinity (as $\text{K}_2\text{CO}_3$ )	NMT 1,0%
Acidity (as Sorbic acid)	NMT 1,0%
Aldehydes	NMT 0,1%
Heavy metals (as Pb)	NMT 10 mg/kg
Lead	NMT 2 mg/kg
Mercury	NMT 1 mg/kg
Arsenic	NMT 2 mg/kg



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### Sorbic Acid



Quality	FCC X
Function	Preservative; mold inhibitor
Shelf life	2 years
Chem. Name	2,4-Hexadienoic Acid
Formula	C <sub>6</sub> H <sub>8</sub> O <sub>2</sub>
Molecular weight	112.12
CAS-No.	110-44-1
Customs tariff No.	2916-1930
Packaging and storage	Store in tight containers protected from light, preferably at a temperature not exceeding 38

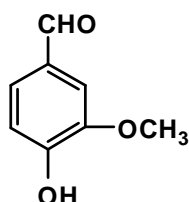
Parameters	Specification
Appearance	White Crystalline Powder
Heat stability	no change in colour after heating for 90 minutes at 105 °C
Identification	The sample solution exhibits an absorbance maximum at 254 ± 2 nm
Assay	99.0%-101.0%
Melting Point	132.0-135.0 °C
Residue on ignition	NMT 0.2%
Water	NMT 0.5%
Point of Sublimation	80 °C
Aldehydes (as Formaldehyde)	NMT 0,1 %
Arsenic	NMT 2ppm
Lead	NMT 2ppm
Mercury	NMT 1ppm
Heavy metals (Pb)	NMT 10ppm



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### Vanillin



Quality	FCC VIII
Function	Flavoring agent
Shelf life	2 years
Chem. Name	4-Hydroxy-3-methoxybenzaldehyde
Formula	C <sub>8</sub> H <sub>8</sub> O <sub>3</sub>
Molecular weight	152.15
CAS-No.	121-33-5
Packaging and storage	Preserve in tight, light-resistant containers

Parameters	Specification
Appearance	White to slightly yellow crystals, usually needles.
Odor	Odor and taste of vanilla
Solubility	Soluble in alcohol, chloroform, ether; 1 g dissolves in 100 mL water at 25° , in 20 mL glycerin, and in 20 mL water at 80°
Identification	The spectrum of the sample exhibits relative maxima at the same wavelengths as those of the spectrum below.
Assay	NLT 99.5%
Loss on drying	NMT 0.5%
Residue on ignition	NMT 0.05%
Melting range	81.0-83.0°C
Heavy metals (as Pb)	NMT 10 mg/kg
Lead	NMT 2 mg/kg
Mercury	NMT 1 mg/kg
Arsenic	NMT 3 mg/kg