

## TECHNICAL DATA SHEET

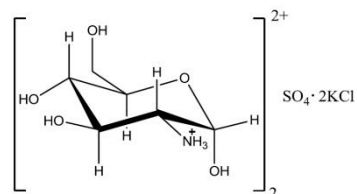
# D-Glucosamine Sulfate Potassium Chloride

### Chemical Properties

CAS No: 1296149-08-0

Chemical Formula:  $(C_6H_{14}NO_5)_2SO_4 \cdot 2KCl$

Molecular Weight: 605.52



### Description

Glucosamine sulphate potassium chloride is essential for rebuilding joints and synovial fluid which can lubricate the joints. So it is important for arthritis.

### Solubility

It is freely soluble in water, sparingly soluble in methanol, practically insoluble in acetone.

### Specification

Item	Specification	Test Method
Appearance	Crystalline powder	USP38- 〈695〉
Color	White	USP38- 〈695〉
Identification	A: Infrared Absorption	USP38- 〈197K〉
	B: It meet the requirements of the tests for Chloride	USP38- 〈191〉
	C: The retention time in the Assay corresponds to the standard	HPLC
	D: Addition $BaCl_2$ TS a white precipitate is formed	USP38
Assay (glucosamine sulfate potassium chloride on the dried basis)	98.0%~102.0%	USP38- 〈621〉
Specific Rotation	+47.0°~+53.0°	USP38- 〈781S〉
Particle Size	Min 98% Through 40 Mesh	USP38- 〈786〉
Organic Volatile Impurities	Meet the Requirements	USP38
Residual Solvents	Meet the Requirements	USP38
Residue on Ignition	26.5%~31.0%	USP38- 〈281〉
pH	3.0~5.0	USP38- 〈791〉
Chloride	11.1%~12.3%	USP38- 〈541〉
Sulfate	15.5%~16.5%	USP38
Sodium	No Pronounced Yellow Color	USP38
Loss on drying	Max 1.0%	USP38- 〈731〉
Heavy Metals	Max 10.0ppm	USP38- 〈231〉 II
Lead	Max 3.0ppm	USP38- 〈251〉 〈851〉
Arsenic	Max 1.0ppm	USP38- 〈251〉 II 〈851〉
Total Plate Count	Max 1,000cfu/g	USP38- 〈2021〉

Yeasts & Molds	Max 100cfu/g	USP38- 〈2021〉
<i>E.Coli</i>	Negative	USP38- 〈2022〉
<i>Salmonella</i>	Negative	USP38- 〈2022〉

## Ingredients

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D-Glucosamine Sulphate Potassium Chloride

## Labeling

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In the United States and the European Union: D-Glucosamine Sulphate Potassium Chloride

## Uses recommendations

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D-Glucosamine Sulphate Potassium Chloride have assisted in rebuilding cartilage, slow the progression of osteoarthritis, and ease pain without the side effects of COX-2 inhibitors or NSAIDS.

## Safety

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This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene. See Material Safety Data Sheet for full safety information.

## Handling recommendations

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Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed .Avoid contact with heat, sparks and flame. Avoid ingestion and inhalation.

Keep away from sparks, and flame. Keep away from sources of ignition. Keep container closed when not in use.

## Packaging, Storage & Shelf Life

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Package	25kg/drum;or according to customers' requirements.
Storage	Preserved in tight, light-resistant containers.
Shelf Life	2 years if sealed and stored properly.