



Potassium Gluconate

Potassium gluconate belongs to the salts of gluconic acid and acts as a sodium-free buffering agent that can be used in skin care as well as in soap and bath products. Besides these properties, it is also used as a sequestering agent due to its excellent complexing ability with various metal ions and constitutes thus an environment friendly alternative to other common chelating agents used in cosmetics, such as EDTA.

Presentation

Potassium gluconate is the potassium salt of gluconic acid. Aqueous solutions of potassium gluconate resist oxidation and reduction.

Production

Potassium gluconate is produced by complete neutralisation of gluconic acid with a potassium source and subsequent spray drying.

Gluconic acid itself is produced by fermentation of glucose syrup, which is derived from maize, and is separated from the glucono-delta-lactone by centrifugation.

Characteristics

Potassium gluconate is a white to yellowish white crystalline powder or granules. It is practically odourless and has a slightly bitter taste.

INCI name

Potassium Gluconate

INCI functions

Chelating, skin protection

Applications

Skin care, soap and bath products

Functions and typical dosage

	Minimum recommended amount	Maximum recommended amount
■ Buffering	0.1%	2.0%
■ Chelating	0.2%	0.6%

