



Jungbunzlauer

From nature to ingredients®

Trimagnesium Citrate

Trimagnesium citrate anhydrous is used as a magnesium source in hair and skin care products where enriching the magnesium content is required. In hair care, it also helps to prevent calcium build up caused by hard water (e.g. on the scalp). Last but not least, trimagnesium citrate globally works as well as an internal desiccant for dry applications.

Presentation

Trimagnesium citrate anhydrous is the magnesium salt of citric acid. It is fast soluble in water and used in different personal care applications that require a magnesium source. As anhydrous salt it is also able to bind water and can act as a desiccant in dry applications.

Production

Trimagnesium citrate anhydrous is produced by complete neutralisation of citric acid with a magnesium source and subsequent precipitation.

Citric acid itself is produced by a submerged fermentation process which employs a strain of the microorganism *Aspergillus niger* to convert sugar into citric acid.

Characteristics

Trimagnesium citrate is a white to almost white fine powder and practically odourless. It is soluble in water, freely soluble in diluted acid and practically insoluble in ethanol (96%).

INCI name

Magnesium Citrate

INCI functions


Hair conditioning, skin conditioning

Applications

Hair care, skin care, soap and bath products

Related documents

Formulation examples

 Water-free face scrub in tablet form

