



Jungbunzlauer

From nature to ingredients®

Monosodium Citrate

Monosodium citrate is used to adjust and buffer the pH value in various cosmetic, hair, oral and skin care applications as well as soap and bath products. It can replace citric acid in sensitive formulations, for instance in effervescent systems and is therefore often applied in water-sensitive formulations due to its low water content.

Presentation

Monosodium citrate is a monobasic salt of citric acid. As partially neutralised salt, it occupies an intermediate position between citric acid and trisodium citrate. Monosodium citrate is used if a buffer effect is required or if citric acid is considered to be too aggressive for the formulation.

Production

Monosodium citrate is produced by partial neutralisation of citric acid with a sodium source and subsequent spray drying or crystallisation.

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

Monosodium citrate is a white fine granular and odourless powder, which is easily soluble in water and practically insoluble in ethanol (96%).

INCI name

Monosodium Citrate

INCI functions

Buffering

Applications

Colour cosmetics, hair care, oral care, skin care, soap and bath products

Functions and typical dosage

	Minimum recommended amount	Maximum recommended amount
■ Buffering	0.1%	2.0%



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