

/ SODIUM BENZOATE

item ref. 266775 | product data sheet

Food additive listing (EU / JECFA)

Sodium Benzoate (E 211 / INS 211)

INCI / EU name (personal care)

Sodium Benzoate

Reg. (EC) 1223/2009 listing (Annex V)
number 1 (benzoic acid and its sodium salt): rinse-off products, except oral (care) products: max. 2.5 % (acid), oral (care) products: max. 1.7 % (acid), leave-on products: max. 0.5 % (acid)).

Cosmos listing (personal care)

Listed as authorised preservative in Appendix V, Table 1

Diet standards

Halal and Kosher certified

Suitable for vegans

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Sodium Benzoate is a preservative meant for food and personal care products. It is a listed preservative in typical natural cosmetics standards, such as Cosmos.

Specifications

Assay:	99.0 % to 100.5 %, calculated with reference to the dried substance
Identification:	responds to tests for sodium and benzoate
Appearance of solution:	10 g / 100 ml is clear
Colour of solution:	10 g / 100 ml is not more intensively coloured than reference solution Y6
Acidity or alkalinity:	not more than 0.2 ml of 0.1 M NaOH or HCl per g
Halogenated compounds:	
Ionic Chlorine:	passes BP & Ph. Eur. test (limit is 200 ppm, as Chlorine)
Total Chlorine:	passes BP & Ph. Eur. test (limit is 300 ppm, as Chlorine)
Loss on drying:	max. 2.0 %
Heavy metals:	max. 10 ppm

Reference is made to the BP2013/PhEur 10 and E 211.

Legislation

As with all preservatives, restrictions apply, please refer to the relevant legislative texts for maximum authorised levels, etc. The maximum levels refer to the sum of acids and salts.

Applications and use levels

Sodium Benzoate can be used as a water soluble preservative in various applications. Only the acid has an antimicrobial activity, therefore the pH should be low enough (e.g. below 4.5) in order to generate a useful concentration of the active acid form. Sodium benzoate can be incorporated at higher pHs, after which the pH is lowered. As with all preservatives, activity should be confirmed using challenge tests. Sodium Benzoate can be combined with other preservatives to broaden the activity spectrum.

Storage and shelf life

Sodium Benzoate should be stored in a cool (< 25 °C) place in closed containers. Shelf life is 24 months after production when stored under the above-mentioned conditions in original unopened packaging.

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