

Product Information

Product Data Sheet

ALPHA-ARBUTIN

Description

ALPHA-ARBUTIN is a biotechnologically produced pure, water-soluble, crystalline, white to off-white powder for cosmetic application.

Product Identification

Product code: 50 3393 4

CAS No.: 84380-01-8

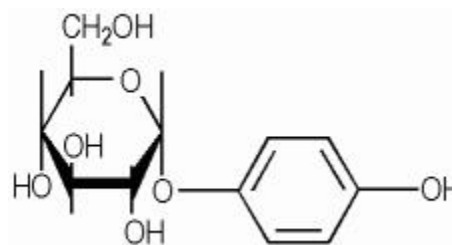
ELINCS No.: 440-470-8

Chemical name: 4-Hydroxyphenyl- α -D-Glucopyranoside

INCI name: Alpha-Arbutin

Empirical formula: $C_{12}H_{16}O_7$

Molecular Weight: 272.25 g/mol



Specifications

Appearance:	white to off-white powder
Alpha-Arbutin content:	$\geq 97\%$
Loss on drying:	$\leq 2\%$
Identity by Infrared spectrum:	it exhibits maxima at the wavenumber of about 1515, 1220 and 1050 cm^{-1}
Specific rotation $[\alpha]^{20}_D$:	+174 to +186°
Heavy metals:	≤ 10 ppm
Individual heavy metals: (checked at regular intervals)	
Lead	≤ 1 ppm
Arsenic:	≤ 1 ppm
Cadmium:	≤ 0.5 ppm
Antimony:	≤ 2 ppm
Nickel:	≤ 2 ppm
Mercury:	≤ 0.1 ppm

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Total aerobic mesophile plate count: < 100 CFU/g

Specified microorganisms: not detectable in one gram

Solubility

ALPHA-ARBUTIN is soluble in water.

Stability and Storage

ALPHA-ARBUTIN may be stored for at least 36 months from the date of manufacture in the unopened original container protected from light and humidity in a clean place and at a temperature between 15 and 25°C. The 'Best use before' date is printed on the label. Keep package tightly closed. Once opened, use contents quickly. In order to avoid secondary microbial contamination, following opening, containers should be handled with special care.

Uses

ALPHA-ARBUTIN is a cosmetic ingredient for skin care products. It should be processed at a maximum temperature of 40°C and incorporated into the aqueous phase of a cosmetic formulation. For face and neck care preparations up to 2% of ALPHA-ARBUTIN and for body care preparations up to 0.5% of ALPHA-ARBUTIN may be used.

Safety

This product is safe for the intended use. Avoid ingestion or direct contact by applying suitable protective measures and personal hygiene.

For full safety information and necessary precautions, please refer to the respective DSM Material Safety Data Sheet.

Legal notice

The information given in this publication is based on our current knowledge and experience, and may be used at your discretion and risk. It does not relieve you from carrying out your own precautions and tests. We do not assume any liability in connection with your product or its use. You must comply with all applicable laws and regulations, and observe all third party rights.

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Additional information

To find out more about our ingredients, please contact your nearest DSM Nutritional Products office.

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