

Chemaxcel Corporation

Technical Data Sheet

Beta Arbutin (β -Arbutin)

Beta Arbutin is a white crystalline powder, it can be soluble in hot water, ethanol, slightly soluble in cold water, specific optical rotation is about -66° .

Brand Name: Maxcel BAB

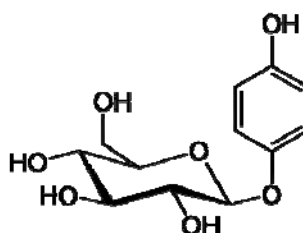
INCI Name: Beta Arbutin

Molecular Formula: $C_{12}H_{16}O_7$

Molecular Weight: 272.25

CAS No.: 497-76-7

Specifications:



Appearance: white crystalline powder

Assay: $\geq 99.5\%$

Melting point: $199\sim 201 \pm 0.5^\circ\text{C}$

Clarity of water solution: transparency, colorless, none suspended matters

pH value of 1% aqueous solution: $5.0\sim 7.0$

Specific optical rotation: $[\alpha]_D^{20} = -66 \pm 2^\circ$

IPV: 1515cm^{-1} 1220cm^{-1} $1050\text{cm}^{-1} \pm (5\sim 8) \text{cm}^{-1}$

Arsenic: ≤ 2 ppm

Hydroquinone: ≤ 10 ppm

Heavy metal: ≤ 10 ppm

Loss on drying: $\leq 0.5\%$

Ignition residue: $\leq 0.5\%$

Pathogen: Bacteria: $\leq 300\text{cfu/g}$ Fungus: $\leq 100\text{cfu/g}$

Packaging: in aluminum bag of 1kg net or in fiber drum with inner PE bag containing 20kgs net

Storage: keep away from light and moisture, should be stored in cool and dry place at room temperature.

Shelf life: 24 months from the date of manufacture, in the original unopened container under the suggested storage conditions.

Applications: Beta Arbutin is used as a skin-lightening agent in many cosmetic products, it inhibits the activity of tyrosinase and thus prevents the formation of melanin, reduces the skin pigment deposition. Arbutin also has antibacterial effect and diminishing inflammation, which can be applied in medicine for scald.

Chemaxcel Corporation

7F-G Zhongtian Mansion, 173 Yu Gu Road, Hangzhou 310007, China

Tel: +86-571-28291608 Fax: +86-571-28291610 E-Mail: info@chemaxcel.com Web: www.chemaxcel.com