

Chemaxcel Corporation

Technical Data Sheet

Alpha Arbutin (α -Arbutin)

Alpha Arbutin is a white crystalline powder, it can be soluble in hot water, ethanol, slightly soluble in cold water, specific optical rotation is about 180° .

Brand Name: Maxcel AAB

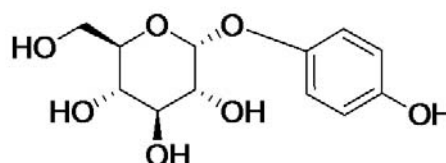
INCI Name: Alpha Arbutin

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

Molecular Weight: 272.25

CAS No.: 84380-01-8

Specifications:



Appearance: white crystalline powder, IR spectrum conforms.

Assay: $\geq 99.5\%$

Loss on drying: $\leq 0.5\%$

Ignition residue: $\leq 0.5\%$

Melting point: $202.0\sim 210.0^\circ\text{C}$

Clarity of water solution: transparency, colorless, no suspended matters

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

Specific optical rotation: $[\alpha]_D^{20} = +175.0^\circ \sim +185.0^\circ$

Hydroquinone: negative

Lead: ≤ 10 ppm

Arsenic: ≤ 2 ppm

Mercury: ≤ 1 ppm

Methanol: ≤ 2000 ppm

Microbacteria Test: conform

Packing: in aluminum bag of 1kg net each or in fiber drum with inner PE bag containing 25kgs 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.

Application: Alpha 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. The recommend dosage is 0.1%-0.2%.

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