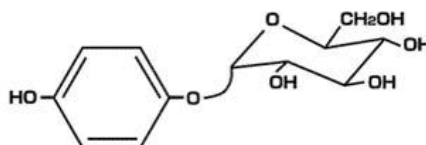


ALPHA ARBUTIN

PRODUCT DATA SHEET

Chemical Name	4 - Hydroxyphenyl - α - D - glycopyranoside
INCI name	Alpha Arbutin
CAS Number	84380-01-8
Empirical Formula	$C_{12}H_{16}O_7$
Structure	



Molecular Weight	272
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CHEMICAL AND PHYSICAL CHARACTERISTICS

Appearance	White crystalline powder
Assay	Not less than 98%
Odor	Characteristic
Solubility in water	Dissolved
Loss on drying	Not more than 5%
Heavy Metals	
Pb	Less than 3 ppm
As	Less than 1 ppm
Cu	Less than 1 ppm
Yeast & Mold	< 100/g
E.Coli	Negative
Salmonella	Negative

APPLICATION

Alpha Arbutin is a new ingredient for a safe, stable and effective lightening agent in skin care application. Alpha Arbutin suppresses melanin production that caused freckles and suntan by inhibiting Tyrosinase activity.

Alpha Arbutin is water soluble active that easy to incorporate into formulation after premix. Premix solution : mix 1 part of Alpha Arbutin in 5 part of purified water while heat (50-60 °C) and stirring well for faster dissolve. Premix solution can be added onto formulation before emulsification (hot process) or after emulsification (or cold process).

Recommendation use level : 0.2 – 2 %

STORAGE & HANDLING

Keep in tightly closed containers at room temperature in clean, cool and dry place