



## Aminobutyric acid

INCI Aminobutyric acid  
CAS 56-12-2

### SPECIFICATIONS

Appearance White crystalline powder  
Assay % 99 min.

### GENERAL INFORMATION

Aminobutyric acid is a naturally occurring non-protein amino acid in plants, animals and the human body. In the human body it acts as an inhibitory neurotransmitter. Applying Aminobutyric Acid to the skin causes the muscles to relax within minutes. It smooths the expressions lines due to its "Botox-like" effect.

In addition, Aminobutyric acid stimulates the skin's own synthesis of hyaluronic acid, which leads to a formation of new collagen and supports the ability to repair the skin barrier. Aminobutyric acid can also stimulate the production and proliferation of skin protection peptides such as involucrin and glutathione in the epidermis. The proliferation of fibroblasts in the dermis is supported by the use of Aminobutyric acid in cosmetic products.

### FORMULATION & RECOMMENDATIONS

We recommend adding Aminobutyric acid directly to the aqueous phase. Usage of 3.4 mg/L of GABA increases the production of epidermal cells up to 1.2 times. Usage of 12.5 mg/L of Aminobutyric Acid increases the production of involucrum up to 1.4 times.

#### Recommended concentration

0.05 – 0.5 %

#### Solubility

soluble in water

### BENEFITS

- Easy to handle
- Smooths the expression lines

### APPLICATIONS

#### Cosmetics

- Skin care
- Hair care
- Body care
- Anti-aging products

### SHELF LIFE

Under proper storage conditions shelf life up to 24 months.