

## IACTIVE GABA

**INCI Name (US):** Aminobutyric Acid

**INCI Name (EU):** Aminobutyric Acid

**CAS #:** 56-12-2

**General Information/  
Characteristics:**

Gamma-AminoButyric Acid (GABA) is a non-protein amino acid, due to all its benefits; it works as an ideal anti-aging agent ingredient. It can penetrate the skin and relax tense muscles thereby significantly reducing expression lines to achieve a fresher younger looking skin. GABA is known to act as a wound healer as well. Being a neurotransmitter inhibitor is what allows for its topical muscle tone which is mostly compared to “Botox-like” effect. Research in this topical application suggests that it then improves the skin barrier.

There are GABA receptors on the skin surface. The inhibitory or excitability of GABA receptor controls the relaxation and tension of the expression muscles. GABA can quickly penetrate into the skin and activate the GABA receptors, then the tense expression muscles are relaxed, the expression lines are stretched.

**Benefits/ Application:**

Skin care benefits:

- Botox-like effect due to muscle relaxation.
- Promotes Hyaluronic Acid as well as collagen synthesis.
- Repairs damaged skin.
- Skin healing effects.
- Favorable adhesion and moisturization.

Hair care benefits:

- Affinitive to hair, repair split-end and tangle of hair.

Applications:

- Anti-aging and anti-wrinkle lotions, creams and serums.
- Skin smoothing lotions and creams.
- Therapeutic wound healing topical products.
- Hair conditioning: shampoos.

**Formulations Advices:** Recommended usage level: 0.05-0.3%. Recommended pH level: 5.0-7.0. This product is easily dissolved in water and is slightly dissolved in hot ethanol.

**Regulatory Status:** No specific regulations.

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**Physical-Chemical Properties:**

Appearance: Crystalline powder: strong, hygroscopicity.  
 Color: White.  
 pH: 6.0-8.0  
 Melting point: 197-203 °C  
 Clarity: Clearer than 0.5% standard turbidity soln.  
 Heavy metals: ≤10ppm  
 Loss on drying (%): ≤1.5%  
 Residue on Ignition (%): ≤0.1%  
 Assay content: Calculated on the anhydrous substance, contains C<sub>4</sub>H<sub>9</sub>NO<sub>2</sub> no less than 98%.

**Microbiology:**

Total plate count (TPC): ≤100 cfu/g  
 Yeast and Mold: ≤100 cfu/g  
 E. coli: Negative.

*\*These values indicate typical specification; they are not intended to be used as product specifications*

**Additives:**

None.

**Shelf Life / Storage Conditions:**

Store below +30°C. Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials such as oxidizing agents.

**Packaging:**

0.5 kg/bag and 10 kg/cart.

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