

## Green Behenic

<b>Product:</b>	Green Behenic (BAPDMA)	<b>Color:</b>	White to cream
<b>Code:</b>	PA3132	<b>Odor:</b>	Characteristic
<b>CAS Number:</b>	60270-33-9	<b>Solubility:</b>	Moderately soluble in water
<b>INCI Name (CTFA):</b>	Behenamidopropyl Dimethylamine	<b>Appearance:</b>	Creamy solid

The Green Behenic (BAPDMA) is a new worldwide trend in conditioner active. Provides the feeling that the hair become more aligned, because is rich in C22:0 and C24:0 long chain fatty acids, naturally presents on the Pracaxi oil, which gives an excellent conditioner power with peerless final sensory.

Another benefit is the presence of omega-9 in its compositions, which confers an improvement in the hair gloss, besides the partial reparation of damages caused by external agents like hairdryer, hair chap and straightening process. The surfactant has vegetable source, is biodegradable and has low allergenicity. It is a non-ionic surfactant, that in acid medium presents cationic characteristics.

### Properties

It is a high performance conditioning agent with excellent sensory properties, which is adsorbed by the negatively charged surface of the hair, without leaving residues or weighing the hair. It gives high, wet and dry, combability, soft touch and reduced frizz and volume. The amine value of the product is between 148 to 158 mg KOH/g.

### Indications

It is indicated to be used in conditioner formulations, combing creams, treatment cream, serums, hair masks, shampoos, among others.

### Efficacy Tests

#### 1. Comparative test

**Methodology:**

Apply 8g of shampoo: on both side of the head  
Massage for 1.5 minute and rinse it off

**Apply 4g of conditioner:**

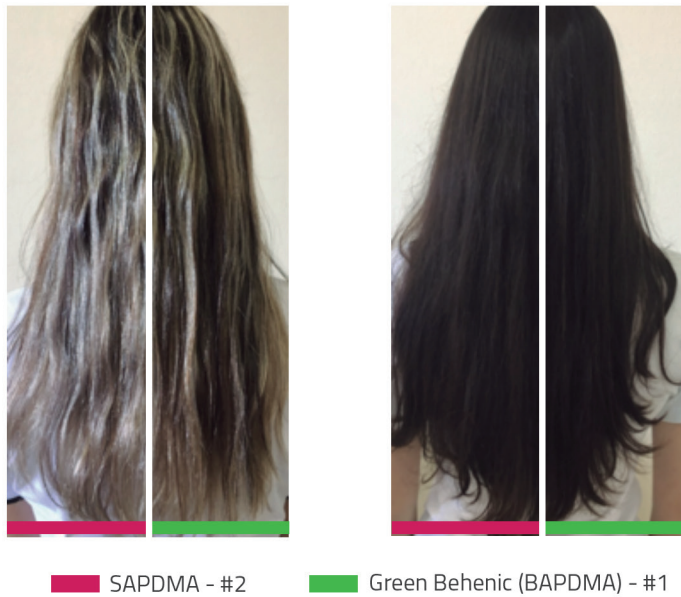
#1 on right side apply GREEN BEHENIC (BAPDMA)  
#2 on left side apply SAPDMA  
Massage for 1.5 min. and rinse it off  
Wait until dry naturally and evaluate

**Formulation:**

Conditioner test- with 1% de Behenamidopropyl Dimethylamine - Green Behenic (BAPDMA) - #1

Conditioner test- with 1% de Stearamidopropyl Dimethylamine - SAPDMA - #2

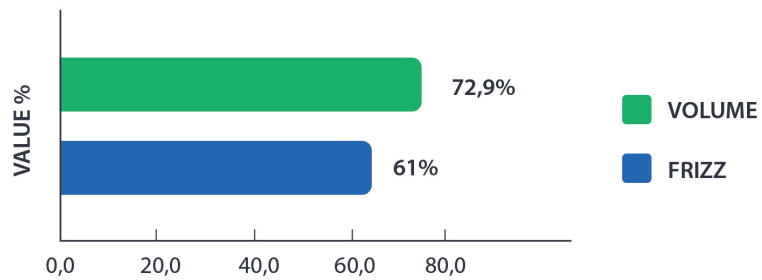
Result:



**2. Sensorial Test – Cosmetic Appreciability**

Results based on a survey of 25 volunteers:

**Anti-Frizz Action and Volume Reduction**  
% of volunteers who found the product  
**EXCELLENT**



## Quality / Differential

### *Product of 100% Natural and Pure Origin*

The actives of the CitroTech Line derive from crude oils, and retain in their composition all the qualities and properties of their parent compounds. Thus, one of the differentials to be highlighted from these products produced by Citróleo is that, during its production process, the oils of origin are not subjected to the refining stage. This type of technique degrades several biomolecules of high nutritional value, naturally present in vegetable oils and butters, such as vitamins (responsible for benefits like antioxidant power) and thermo sensitive carotenoids (which act to maintain the health of hair and skin). Which can harm the quality of the final products. Thus, Citróleo guarantees a competitive and innovative tensioactive full of all the benefits offered by the Brazilian Amazonian biodiversity.

## Dosage / Usual Concentration

The usual concentration of Green Behenic (BAPDMA) is from 0.5 to 2.0%