

Soap  
Calculator  
Ultimate

2025

**SCU Formula Profile:  
(test)**



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## Formula: test

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This Natural Soap Formula made with a blend of Coconut Oil 92 deg, Olive Oil, and Palm Oil offer a range of skin care benefits, including moisturizing, cleansing, and potentially addressing skin issues like acne. These oils contribute to a gentle, yet effective cleansing experience, while also providing nourishment and hydration.

The Soap created from this formula Helps to cleanse the skin without stripping away natural oils, promoting a balanced complexion. Offering the potential benefits of anti-inflammatory properties, Antioxidant protection, and possible treatment for acne and other skin conditions. For more details of potential benefits please see Detailed section.

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## Important Considerations

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Individual Skin Sensitivities: It's always a good idea to test a small patch of skin before using any new soap, especially if you have sensitive skin.

# Formula: test



The Main Totals for this Formula are as Follows.

Ingredients	gr	oz
Batch Weight	1521	54
<b>Oil Weight</b>	<b>1000</b>	<b>35</b>
Water Weight	380	13
<b>Lye (naoh) Weight</b>	<b>141</b>	<b>141</b>

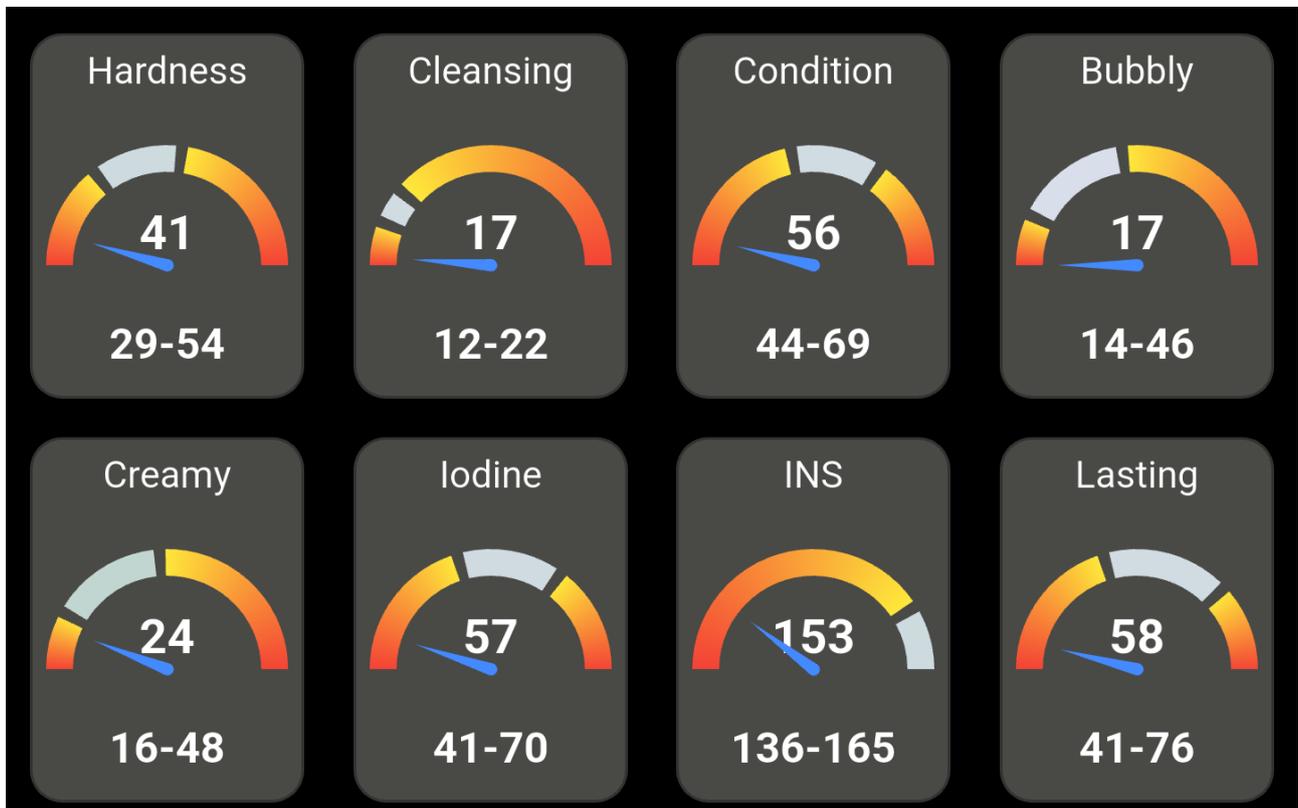
Oil Ingredients.

oil	gr	oz
Coconut Oil 92 deg	250	9
<b>Olive Oil</b>	<b>500</b>	<b>18</b>
Palm Oil	250	9

# Formula: test



## Attribute Score.



The Ranges outlined are widely accepted ranges in the industry. The aim is to be close to the middle of the range depending on your specific requirements. Try to stay in the ranges. For Example the Higher the Hardness Score the harder the Soap and conversely the lower the Score the softer the soap will become.

The iodine number can give soapers an indication of the bar hardness (lower number) and softness (higher number) as well as the bars conditioning quality (higher number).

Iodine Number Saponification - The INS number is believed to predict at a glance many of the other bar properties of hardness, cleansing, conditioning, and lather. The ideal INS number is supposedly 160

Attribute	Range	Score
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Attribute	Range	Score
Hardness	29-54	41
<b>Cleansing</b>	<b>12-22</b>	<b>17</b>
Conditioning	44-69	56
<b>Bubbly</b>	<b>14-46</b>	<b>17</b>
Creamy	16-48	24
<b>Lasting</b>	<b>41-76</b>	<b>58</b>
Iodine	41-165	57
<b>INS</b>	<b>136-165</b>	<b>153</b>

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# Formula: test

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**Fatty Acid Content Providing the Benefits of the Soap.**

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## **Lauric: Formula Weight: 120 gr**

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Lauric acid, a saturated fatty acid, offers several benefits for skincare, including its potent antimicrobial properties, ability to reduce inflammation, and moisturizing effects. It can help combat acne-causing bacteria, soothe irritated skin, and improve overall skin health.

### Benefits

#### **Antimicrobial and Acne-Fighting**

Lauric acid is known for its strong antibacterial properties, making it effective in treating acne by targeting bacteria like *Propionibacterium acnes*.

#### **Anti-Inflammatory**

By reducing inflammation, lauric acid can help alleviate the redness, swelling, and pain associated with acne.

#### **Moisturizing and Hydrating**

Lauric acid's emollient properties help to soften and moisturize the skin, making it feel supple and hydrated.

#### **Protection from Environmental Factors**

Lauric acid can help protect the skin from environmental stressors and strengthen the skin's natural defense mechanisms.

#### **Improved Skin Elasticity and Wound Healing**

Lauric acid can improve skin elasticity and promote faster wound healing.

### **Cleansing and Exfoliation**

Lauric acid is a good cleansing agent, effectively removing dirt, oils, and impurities from the skin and can also help exfoliate dead skin cells.

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# Formula: test

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**Fatty Acid Content Providing the Benefits of the Soap.**

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## **Myristic: Formula Weight: 50 gr**

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Myristic acid offers several benefits for skincare, primarily acting as a cleanser, emulsifier, and emollient. It helps remove dirt, oil, and impurities, promotes smoother skin texture, and aids in the formulation of various skincare products.

### Benefits

#### **Emollient and Moisturizing**

Myristic acid, a saturated fatty acid, is a natural emollient, meaning it softens and smooths the skin by filling in micro-cracks. It can help to retain moisture, preventing dryness and promoting a smoother, softer texture.

#### **Cleansing and Surfactant**

Myristic acid is a surfactant, meaning it can bind to both water and oily dirt particles, allowing for effective cleansing. It is commonly used in face washes and cleansers to help remove dirt, excess oil, and impurities.

#### **Emulsifying**

Myristic acid helps to stabilize cosmetic formulations by mixing water and oil-based ingredients, preventing them from separating. This is particularly useful in creams, lotions, and other products where a smooth, uniform texture is desired.

#### **Thickening**

Myristic acid can increase the viscosity and thickness of products like creams, lotions, and moisturizers. This can improve the application and sensory experience of these product.

### **Other Benefits**

'Myristic acid can act as a lubricant, aiding in the smooth application of cosmetic products. It can also be used to enhance the overall color and texture of a formulation by acting as an opacifying agent.

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# Formula: test

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## **Fatty Acid Content Providing the Benefits of the Soap.**

### **Palmitic: Formula Weight: 203 gr**

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Palmitic acid, a common saturated fatty acid, offers several benefits in skincare, primarily acting as an emollient and moisturizer to hydrate and soften the skin. It helps restore the skin's natural barrier, preventing moisture loss and improving skin texture. Palmitic acid also aids in cleansing by removing dirt and impurities, and can enhance the absorption of other beneficial skincare ingredients.

#### Benefits

##### **Emollient and Moisturizing**

Palmitic acid helps to soften and soothe the skin by filling in micro-cracks, leaving it feeling smooth and hydrated. It also helps prevent moisture loss by forming a protective layer on the skin's surface.

##### **Cleansing**

Palmitic acid is used in cleansers and soaps to help remove dirt, oil, and impurities from the skin.

##### **Barrier Repair**

It plays a role in maintaining the skin's natural barrier function, protecting it from external factors like microbes and dirt.

##### **Enhances Absorption**

Palmitic acid can improve the absorption of other beneficial skincare ingredients, boosting their effectiveness.

### **Texture Improvement**

By softening and moisturizing the skin, palmitic acid can contribute to a smoother and more even complexion.

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# Formula: test

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**Fatty Acid Content Providing the Benefits of the Soap.**

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## **Stearic: Formula Weight: 35 gr**

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Stearic acid, a fatty acid, offers several benefits in skincare, primarily as an emollient and stabilizer. It helps moisturize by creating a barrier on the skin's surface, preventing water loss and keeping skin hydrated. Additionally, it can improve the texture of skincare products, making them smoother and easier to apply. Stearic acid is a versatile ingredient in skincare, offering benefits in moisturizing, barrier function, product texture, and overall skin health, though its use should be considered carefully by individuals with acne-prone skin.

### Benefits

#### **Moisturizing**

Stearic acid acts as an emollient, softening and smoothing the skin while helping to retain moisture.

#### **Barrier Function**

It forms a protective barrier on the skin's surface, reducing water loss and promoting improved moisture retention.

#### **Texture**

It enhances the texture of skincare products, making them more luxurious and easy to apply.

#### **Cleanliness**

As a surfactant, it aids in removing dirt, oil, and impurities from the skin.

### **Stabilization**

It helps stabilize skincare formulations, ensuring consistent texture and performance.

### **Potential for Acne-Prone Skin**

While generally beneficial, some individuals with acne-prone skin may find that stearic acid can potentially clog pores.

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# Formula: test

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**Fatty Acid Content Providing the Benefits of the Soap.**

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## **Linoleic: Formula Weight: 90 gr**

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Linoleic acid, an essential omega-6 fatty acid, offers several benefits for skin health. It helps to maintain the skin's barrier function, moisturizes the skin, and can reduce inflammation, potentially aiding in the treatment of acne. Additionally, linoleic acid may improve skin elasticity and even protect against UV damage.

### Benefits

#### **Skin Barrier Repair**

Linoleic acid is a crucial component of the skin's natural lipids, helping to strengthen the outermost layer of the skin and prevent water loss.

#### **Moisturization**

It can help prevent water loss from the skin, keeping it hydrated and plump.

#### **Anti-inflammatory**

Linoleic acid's anti-inflammatory properties can help soothe irritated skin and reduce redness.

#### **Acne Treatment**

Low levels of linoleic acid have been linked to acne, and topical application of linoleic acid-rich oils may help reduce acne severity.

#### **Improved Skin Elasticity**

Linoleic acid may contribute to increased skin elasticity and a firmer appearance.

### **UV Protection**

Some studies suggest that linoleic acid may help protect the skin from UV radiation damage.

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# Formula: test

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**Fatty Acid Content Providing the Benefits of the Soap.**

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## **Linolenic: Formula Weight: 5 gr**

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Linolenic acid, particularly alpha-linolenic acid, offers several benefits for skin health, including strengthening the skin barrier, improving hydration, and reducing inflammation. It also has the potential to lighten hyperpigmentation and help with acne-prone skin.

### Benefits

#### **Skin Barrier Repair**

Linolenic acid helps the skin produce ceramides, essential lipids that build the skin barrier and prevent water loss.

#### **Moisturization**

By strengthening the barrier, linolenic acid helps retain moisture and prevent dry skin.

#### **Reduces inflammation**

Linolenic acid can soothe irritated skin and reduce inflammation, potentially helping with conditions like eczema.

#### **Lightens hyperpigmentation**

Alpha-linolenic acid is known to inhibit melanin production, which can help reduce hyperpigmentation and improve skin tone.

#### **Helps with acne**

Linolenic acid may help regulate sebum production and reduce inflammation, potentially improving acne-prone skin.

### **Anti-aging effects**

By strengthening the skin barrier and reducing inflammation, linolenic acid can contribute to healthier, younger-looking skin.

### **Protects against environmental damage**

A healthy skin barrier, strengthened by linolenic acid, can protect against environmental stressors like pollution and UV radiation.

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# Formula: test

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**Fatty Acid Content Providing the Benefits of the Soap.**

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## **Iodine: Formula Weight: 565 gr**

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Having adequate iodine in your body not only aids in the normal secretion of thyroid hormones but also helps to keep your skin healthy and smooth. Here are the key benefits of having sufficient iodine through your regular diet or supplements.

### Benefits

#### **Hydration**

Sufficient iodine intake through your meals helps to regulate your perspiration and keeps your skin moist. But make sure that your iodine consumption is optimum, and not excessive. Too much iodine in your system can lead to the opposite effect.

#### **Detoxification**

Iodine plays a vital role in detoxifying your body from halides like fluoride, bromide & chlorine. Halides can cause multiple illnesses like cysts, fibroids in different body parts, fibrocystic breast disease, and even cancers of reproductive organs. Iodine can prevent you from those diseases by flushing out halides from your system. You can detox your body from heavy metals like cadmium, lead, mercury, and aluminum with a regular iodine intake. Iodine allows your body to pass these toxins out of your system.

#### **Healing**

Being a natural disinfectant, iodine can be used on cuts and scars to speed up the healing process. It aids in repairing your skin, heals scars and blemishes faster, and stops them from getting infected.

## **Rejuvenation**

Iodine also aids in promoting healthy skin, nails, and hair [5]. It helps in cellular function and regeneration [6] of the lower layers of your skin. By rejuvenating the skin from the inner layers, iodine can provide a smooth complexion, healthy and shiny hair, and strong nails. Adequate iodine in your body helps to strengthen your hair follicles and improve hair growth. So, a deficiency can lead to hair loss or thinning hair.