



Beautifulsoaper Recipe 2022May15

Recipe date: 2022/05/19

Notes:

For these calculations: Assumptions: 98% lye purity, 4% SF, 350 grams of oils, No added Fragrance or other additives except table salt @ 1 tsp salt dissolved in hot water prior to dissolving the lye for lye solution. **Assumption:** User made no errors listing the exact oils used. (Saponification numbers change with other types of palm and other types of coconut oil.) **Assumption:** User made no weights & measure errors. **Assumption:** scale is accurate. **Assumption:** Trace was reached prior to pouring into mold. **Assumption:** Batter was fully emulsified and did not separate. **Assumption:** Batter heated up sufficiently to continue thickening & to gel. **Assumption:** Date soap was made is May 13 (?) 2 days prior to post on SMF, which stated it was made 2 days previously. **Unknown factors:** Did the batter truly emulsify? Were the oils & lye solution warm, hot or cold when mixed together? Did the batter reach true trace? Did the soap gel? What kind of mold is the soap in: loaf, or individual molds, plastic, wood, silicone? Was the molded soap insulated to facilitate gel? What does the soap look like? (Photos can be helpful in determining the answers to some of these questions.)

| Recipe Totals | | Recipe Properties | | | Fatty Acids % | |
|----------------------------|----------|-------------------|-----|-------------|---------------|----|
| Liquid Required | 99.86 g | Property | % | Recommended | Lauric | 12 |
| NaOH Weight at 98 % Purity | 49.93 g | Bubbly Lather | 22 | 14 - 46 | Myristic | 5 |
| Oil Weight | 350 g | Cleansing | 17 | 12 - 22 | Palmitic | 18 |
| Super Fat | 4 % | Condition | 51 | 44 - 69 | Stearic | 11 |
| Total Batch Weight | 504.79 g | Hardness | 46 | 29 - 54 | Ricinoleic | 5 |
| Lye Concentration | 33.33 % | Longevity | 29 | 25 - 50 | Oleic | 35 |
| Liquid : Lye Ratio | 2:1 | Creamy Lather | 34 | 16 - 48 | Linoleic | 10 |
| Saturated : Unsaturated | 46:54 | Iodine | 55 | 41 - 70 | Linolenic | 0 |
| | | Ins | 154 | 136 - 165 | | |

☐ Liquid and NaOH

☐ Liquid Required99.86 g

☐ NaOH Weight at 98 % Purity49.93 g

☐ Recipe Oils, Fats and Waxes

| Oil | % | Grams |
|--|-----|-------|
| <input type="checkbox"/> Castor Oil | 6 | 21 |
| <input type="checkbox"/> Sesame Oil | 10 | 35 |
| <input type="checkbox"/> Coconut Oil, 76 deg | 25 | 87.5 |
| <input type="checkbox"/> Olive Oil | 12 | 42 |
| <input type="checkbox"/> Shea Butter | 19 | 66.5 |
| <input type="checkbox"/> Palm Oil | 28 | 98 |
| Total | 100 | 350 |

☐ Custom Additives

Add with the liquid

☐ Salt1 tsp5 g

☐ Additional Ingredients

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