



# Formulation

|   |   |                    |
|---|---|--------------------|
| Name                                    | <b>SELF-TANNING LOTION</b>  |                    |
| No.                                     | 725   |                    |
| Description                             | This self-tanning lotion has excellent feel. In addition, it provides a natural-looking tan with Dihydroxyacetone.  |                    |
| Formulation                             | <u>INGREDIENTS:</u>   | <u>% by Weight</u> |
|   | === Phase 1 ===   |                    |
|   | Deionized Water   | q.s. to 100.0      |
|   | Glycerin  | 3.50               |
|   | STEPANQUAT® GA 90 (Ester Quat)  | 2.85               |
|   | === Phase 2 ===   |                    |
|   | Ethylhexyl Isononanoate (HALLSTAR® OCTYL ISONONANOATE)  | 15.00              |
|   | Isopropyl Myristate (HALLSTAR® IPM)   | 2.00               |
|   | CETYL ALCOHOL   | 2.00               |
|   | Glyceryl Stearate (HALLSTAR® GMS PURE)  | 2.50               |
|   | STEARYL ALCOHOL   | 1.50               |
|   | === Phase 3 ===   |                    |
|   | Dihydroxyacetone (Rono/EM) Dihydroxyacetone   | 3.50               |
|   | Deionized Water   | 10.00              |
|   | === Phase 4 ===   |                    |
|   | Fragrance, Dye, and Preservative  | q.s.               |
|   | <b>Total</b>  | <b>100.00</b>      |
| Procedure                               | Prepare Phase 1 and heat to 70°C–75°C. Prepare Phase 2 and heat to 73°C–77°C. Add Phase 2 to Phase 1 with good agitation. Emulsify for 20–25 minutes. Start cooling to room temperature. Prepare Phase 3. Add Phase 3 into the main batch. Add Phase 4. Adjust pH to 4.0–4.5. |                    |
| Physical Properties                     | Appearance at 25°C  | Opaque             |
|   | pH, as-is   | 4.0–5.0            |
|   | Viscosity at 25°C, cps  | 4000–4500          |
| Storage/Stability                       | 1 year at 25°C  | Stable             |
|   | 3 months at 42°C  | Stable             |
|   | 1 week at 50°C  | Stable             |
| Instructions for Use                    | Smooth evenly and thoroughly over clean skin. Color develops in 2–3 hours.  |                    |
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| For Additional                          | For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or 011-334-76-505-100 (Europe).<br>For ordering assistance, call our Account Service Department at 1-800-457-7673.  |                    |

Assistance

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