

Glypure™

Cosmetic-Grade Glycolic Acid

Formulation—Skin Care Face Cream with Pro-Vitamin A



Glypure™ penetrates the skin efficiently—readjusting water percentages in the epidermis, stimulating collagen synthesis, and promoting cell turnover. It is also an efficient pH adjuster.

- Improves the look and feel of skin
- Promotes exfoliation
- Improves skin texture
- Fights the signs of aging
- Reduces the appearance of fine lines and wrinkles
- Improves the appearance of sun-damaged skin
- Helps even out skin tone

Phase	Trade Name	Wt%	INCI Name	Supplier
A1	Purified Water USP	25.00	Purified Water USP	
A2	Natrosol® 250 HEC	0.20	Hydroxyethylcellulose	Ashland
A3	Zemea® Propanediol	3.00	Propanediol	DuPont Tate & Lyle Bio Products
A4	Keltrol® CG-T	0.40	Xanthan Gum NF	CP Kelco
A5	Arlasolve™ DMI	1.00	Dimethyl Isosorbide	Croda
A6	Edeta® BD	0.10	Disodium EDTA	BASF
B1	Purified Water USP	20.00	Purified Water USP	
B2	Glypure™	6.70	Glycolic Acid (70%)¹	Chemours
B3	Triethanolamine 99%	0.75	Triethanolamine 99% NF—to pH 3.8 or desired pH	–
C1	White Protobet® 1S Petrolatum	4.00	White Petrolatum	Sonneborn
C2	Fancor® Meadowfoam Seed Oil	4.00	Meadowfoam Seed Oil	Elementis Specialties
C3	White Beeswax NF	0.50	White Beeswax NF	Strahl & Pitsch
C4	Dermol IPP	3.50	Isopropyl Palmitate	Alzo
C5	Alkest® SP 60 F	1.50	Sorbitan Stearate	Oxitenol
C6	Arlacel™ 165	3.50	Glyceryl Stearate/PEG-100 Stearate	Croda
C7	Xiameter® PMX-200 Silicone Fluid 100CS	2.00	Dimethicone	Dow Corning
C8	Wickenol® 171	3.50	Octyl Hydroxystearate	Alzo
C9	Vitamin E Acetate	1.00	Tocopherol Acetate USP	DSM
C10	BHT	0.01	BHT (Butylated Hydroxytoluene)	Merisol Antioxidants, LLC
C11	Crodacol™ CS50	1.50	Cetearyl Alcohol	Croda
C12	Propylparaben	0.10	Propylparaben	Spectrum Chemical
D1	Zemea® Propanediol	2.00	Propanediol	DuPont Tate & Lyle Bio Products
D2	Phenoxetol®	0.30	Phenoxyethanol	Clariant
D3	Methylparaben	0.30	Methylparaben, NF	Spectrum Chemical
D4	Elestab® CPN	0.30	Chlorphenesin	Lab. Serobiologiques/BASF
E1	Vitamin A Palmitate	0.45	Vitamin A	DSM
F1	As Desired	0.00	Fragrance	As Desired
qs	Purified Water USP ⁴	qs to 100%	Purified Water USP	

Notes:

¹Glypure™ (99%) may be substituted for Glypure™ (70%). Compensate the purified water percentage accordingly.

²Compensate the purified water percentage accordingly for any additives.

In lieu of Glypure™, formulators and manufacturers must use Glypure™ L for products used or distributed in Canada or Australia and in Europe for nail care products.

Manufacturing Procedure

1. In the main vessel, add A1 and sprinkle in A2. Mix for 30 min to hydrate.
2. In a separate vessel, pre-wet A3 and A4 until a uniform slurry is formed. Add to phase A.
3. Add A5 and A6 separately with continued mixing.
4. In a separate vessel, prepare phase B and add to phase A.
5. Begin heating phase AB to 70-75 °C (158-167 °F).
6. In a separate vessel, add the ingredients of phase C and begin heating to 70-75 °C (158-167 °F).
7. When both phase AB and phase C are at 70-75 °C (158-167 °F), add phase C to phase AB. Mix and homogenize for 15 min.
8. Cool to 65 °C (149 °F) and add phase D that has been pre-mixed and solubilized in a separate vessel.
9. Continue cooling to 45 °C (113 °F) with mixing.
10. At 45 °C (113 °F), add phase E to phase ABCD. Continue mixing and cooling to 35 °C (95 °F).
11. At 35 °C (95 °F), add fragrance and purified water to compensate for any water losses.

Glypure™ has proven benefits in hair, skin, and nail care formulations. To learn more about the benefits of Glypure™, visit www.glypure.com.

For more information, visit glycolicacid.chemours.com or call (800) 441-9593.

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