

# Glypure™

## Cosmetic-Grade Glycolic Acid

### Formulation—Skin Care Anti-Aging Serum



Glypure™ anti-aging serum contains 2.8% glycolic acid. This Glypure™ formulation penetrates the skin efficiently, readjusting water percentages in the epidermis. It is an efficient pH adjuster.

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

Phase	Trade Name	Wt%	INCI Name	Supplier
A1	Purified Water	37.00	Purified Water	
A2	Dissolvine® NA2 S	0.05	Disodium EDTA	AkzoNobel
A3	Ucare™ Polymer JR-30M	1.00	Polyquaternium-10	Dow
A4	Glycerin USP	3.00	Glycerin	Vantage Specialty Ingredients, Spectrum
A5	Zemea® Propanediol	10.00	Propanediol	DuPont Tate & Lyle Bio Products
B1	Purified Water	37.00	Purified Water	
B2	Glypure™	4.00	Glycolic Acid (70%) <sup>1</sup>	Chemours
B3	Trolamine 99	0.80	Triethanolamine 99% NF <sup>2,3</sup> to pH 3.5–4.0 <sup>3</sup>	Dow, Vantage Specialty Ingredients
C1	Tween™ 80	3.00	Polysorbate 80	Croda
C2	Vitamin A Palmitate USP	0.05	Retinyl Palmitate	Spectrum
C3	Vitamin E Acetate	0.25	Tocopheryl Acetate	Spectrum
C4	BV-OSC™	0.05	Tetrahexyldecyl Ascorbate	Barnet
D1	Elestab® FL-15	2.50	Butylene Glycol (and) Glycerin (and) Chlorphenesin (and) Methylparaben	Lab. Serobiologiques/BASF
E1	To Shade Desired	0.00	Dye	
E2	As Desired	0.00	Botanical Extracts <sup>4</sup>	
E3	As Desired w/Acidic Top Notes	0.00	Fragrance	
Adjust	Adjust final pH to 3.8–4.2 with Triethanolamine or Glypure™, as necessary.			
qs	Purified Water	qs to 100%	Purified Water	

#### Notes:

<sup>1</sup>Glypure™ (99%) may be substituted for Glypure™ (70%). Compensate for active Glycolic Acid Content and Purified Water percentage accordingly.

<sup>2</sup>May use other suitable alkalis, e.g., Potassium Hydroxide, Ammonium Hydroxide, or Sodium Hydroxide.

<sup>3</sup>Do not exceed 2.5% of Triethanolamine to comply with EU regulations. If necessary, add another neutralizing agent.

## Manufacturing Procedure

1. To the main vessel, add A1.
2. Add A2, and mix until completely soluble and water clear.
3. Slowly add A3 to minimize agglomeration, and heat to 35–50 °C (95–122 °F) until completely clear.
4. Cool to 30–35 °C (86–95 °F), and add A4 and A5.
5. In a separate vessel, add B1–B3 in order, and mix until pH is constant. Adjust pH, if necessary, with Glypure™ or Triethanolamine. Add to main vessel.
6. In a separate vessel, add C1–C4 in order, and mix until vitamins are completely soluble. Warm gently, if necessary. Add to main vessel.
7. Add D1 and E1–E3, if desired, and mix batch until uniform and clear.
8. Adjust batch to indicated pH and qs to 100% with Purified Water.

Glypure™ has proven benefits in hair, skin, and nail care formulations. To learn more about the benefits of Glypure™, visit [www.glypure.com](http://www.glypure.com).

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**For more information, visit [glycolicacid.chemours.com](http://glycolicacid.chemours.com) or call (800) 441-9593.**

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