

# Glypure™

## Cosmetic-Grade Glycolic Acid

### Formulation—Men's Care Facial Toner for Wipes



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	50.00	Purified Water USP	
A2	Ucare® Polymer JR-30M	0.10	Polyquaternium-10	Dow
A3	<b>Glypure™</b>	<b>11.43</b>	<b>Glycolic Acid (70%)<sup>1</sup></b>	<b>Chemours</b>
A4	Ammonia Solution Strong NF	2.90	Ammonium Hydroxide 28% <sup>2</sup> —to pH 3.7–3.9	–
A5	Edeta® BD	0.05	Disodium EDTA	BASF
A6	Biowax® Liquid 754	0.50	PEG-8 Dimethicone	Biosil Technologies
A7	Tween™ 20	0.25	Polysorbate 20	Croda
A8	Zemea® Propanediol	3.00	Propanediol	DuPont Tate & Lyle Bio Products
A9	Aloe Vera Gel Decolorized 40X	0.25	Aloe Barbadensis Leaf Juice	Terry Labs
A10	Witch Hazel USP	5.00	Hamamelis Virginiana (Witch Hazel) Extract	Spectrum
A11	α-Bisabolol	0.10	α-Bisabolol	BASF
A12	As Desired	0.00	Dye	As Desired
A13	As Desired	0.00	Fragrance, Botanical Extracts <sup>3</sup>	As Desired
A14	Elestab® FL-15	2.50	Butylene Glycol (and) Glycerin (and) Chlorphenesin (and) Methylparaben	Lab. Serobiologiques/ BASF
A15	SD Alcohol 40-B	20.00	SD Alcohol 40-B	–
qs	Purified Water USP	qs to 100%	Purified Water USP <sup>4</sup>	

#### 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>Fragrance and botanical extracts should have a citrus top note for stability.

<sup>4</sup>Compensate the purified water percentage accordingly to 100% batch weight.

Note: Stability profiles of the finished product should be determined.

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 mixing vessel, add A1 and begin mixing.
2. Slowly sprinkle in A2 until uniformly dispersed, then begin heating to 35-45 °C (95-113 °F) until A2 hydrates and solution becomes water clear.
3. Cool to below 30 °C (86 °F) and add A3 with mixing.
4. Neutralize to the indicated pH with A4 or other suitable alkali.
5. Add in order A5-A14, allowing each ingredient to solubilize before adding the next.
6. Cool to below 30 °C (86 °F) and add A15 with mixing.
7. Adjust pH to indicated range and qs with purified water to 100%.

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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