

Glycolic Acid

Formulation—Toilet Bowl Cleaner

Product Information



With outstanding cleaning performance, ease of use, and environmental acceptability, glycolic acid is an effective toilet bowl cleaner that helps consumers save time and effort while addressing concerns about environmental impact.

Glycolic acid aids in the removal of rust and hard water stains from toilet bowl surfaces.

- Enables easy removal of toilet bowl stains
- Readily complexes with iron, calcium, and magnesium deposits

Phase	Trade Name	wt%	Common Name	Supplier
A1	Water	83.97	Water	
A2	Ticaxan® Xanthan Powder	0.20	Xanthan gum	TIC Gums
A3	Van Gel ES	0.80	Smectite clay	Vanderbilt Minerals, LLC
A4	Glycolic Acid Technical Grade (70)	5.71	Glycolic acid (70%)	Chemours
A5	Maleic Acid 98%	4.08	Maleic acid	Univar
A6	Sulfamic Acid 98%	2.04	Sulfamic acid	Univar
A7	Sodium Erythorbate	2.00	Sodium erythorbate	Univar
A8	Surfonic L12-8	1.00	Alcohols, C10-C14, ethoxylated	Huntsman
A9	Rodine 31A	0.025	Alkyl pyridines	Henkel
A10	As Desired	0.00	Fragrance, dye	As Desired
Qs	Water	qs to 100%		

The above formulation is a starting point formulation. For a registered toilet bowl cleaner in North America, follow registration EUP guidelines, using Glyclean™ AM at 9.5% and adjusting the water concentration accordingly.

Manufacturing Procedure

1. In the main vessel, under constant agitation with either an overhead mixer or stir bar, add A1 and slowly add A2. Mix until homogenized.
2. Continue mixing and add A3 gradually until solution is clear.
3. Add A4 through A6, while mixing, until all solids have dissolved.
4. Add the remaining ingredients, individually, while mixing.
5. Adjust remaining water percentage accordingly.

Physical Properties

Appearance at 25 °C (77 °F)	Opaque amber liquid
Viscosity	Slightly viscous
pH, as is	2.0-2.5
Density	1.02-1.05
Stability	Stability profiles of the finished product should be determined.

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