

# Glycolic Acid

Technology for a Changing Environment

## Product Information

A versatile and effective solution for a broad range of cleaning and industrial applications, glycolic acid (hydroxyacetic acid) is the first member of the series of alpha-hydroxy carboxylic acids (which means it is one of the smallest organic molecules with both acid and alcohol functionality). Although glycolic acid occurs naturally as a trace component in sugarcane, beets, grapes, and fruits, Chemours synthesizes the product through a sustainable manufacturing process in Belle, WV.

Chemours has been the leading supplier of glycolic acid to customers and distributors worldwide for more than 70 years.

### A Unique Combination of Properties Makes Glycolic Acid Ideal for a Variety of End Uses

#### Cleaning applications

- Hard Surfaces (consumer and institutional)
- Masonry Surfaces
- Concrete Cleaners and Removers
- Metal Surfaces
- Industrial Water Systems
- Boiler Systems
- Water Wells
- Dairy and Food Equipment



#### Industrial applications

- Textile Dyeing and Finishing
- Printed Circuit Board Fluxes
- Laundry Sours
- Leather Dyeing and Tanning
- Oil Field Applications
- Petroleum Refining
- Industrial Chemical Manufacturing
- Electropolishing

#### Why Customers Use Glycolic Acid

##### Ideal choice for you, your customers, and the environment

- Readily biodegradable (90% in 7 days)
- Low corrosivity
- VOC-exempt in California
- Negligible odor
- Low toxicity



### Household Cleaners

| Metal               | % Weight Loss Using 5 wt% of Acid at 23 °C (73 °F)* |        |          |          |
|---------------------|---|--------|----------|----------|
|                     | Glycolic  | Citric | Sulfamic | Urea HCl |
| 1018 Carbon Steel   | 0.16  | 0.13   | 0.30     | 0.37     |
| 1100 Aluminum       | 0.010   | 0.005  | 0.086    | 10.20    |
| 304 Stainless Steel | 0.007   | 0.009  | 0.011    | 0.064    |
| CDA360 Brass        | 0.017   | 0.021  | 0.008    | 0.015    |

### Industrial Cleaners

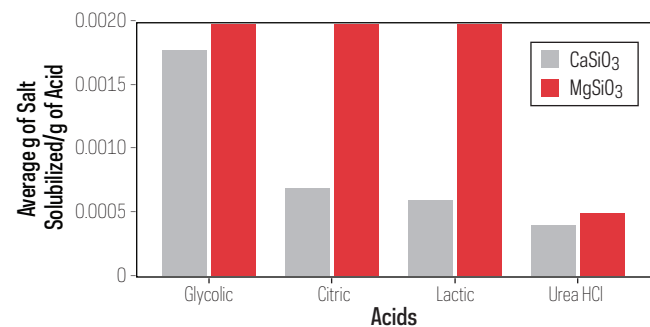
| Metal               | % Weight Loss Using 10 wt% of Acid at 70 °C (158 °F)* |            |          |       |
|---------------------|---|------------|----------|-------|
|                     | Glycolic  | Phosphoric | Sulfamic | HCl   |
| 1018 Carbon Steel   | 10.53   | 15.70      | 20.26    | 53.22 |
| 110 Copper          | 0.040   | 0.087      | 0.090    | 0.52  |
| 316 Stainless Steel | 0.002   | 0.001      | 0.055    | 6.58  |

\*Based on 48-hr contact time with no agitation

### A very effective cleaning and complexing agent

- Broad metal sequestering properties
- Excellent solubility of hard water salts (calcium, magnesium, metasilicates)

### Solubility of Metasilicates



- Excellent rinsability; minimal residue
- Excellent formulation compatibility
- Effective pH adjuster

### Easy to handle and use

- Easy handling liquid
- Readily dilutable at all concentrations
- Nonflammable

### Our Products

- Extremely low salt content, which provides greater application flexibility
- NSF-certified for use as an acid cleaner (A3) in all departments of official establishments operating under the federal meat, poultry, shell egg grading, and egg products inspection program. Provided these food contact surfaces are rinsed with potable water after cleaning.
- Glyclean™ AM, containing 68% glycolic acid, is EPA registered as a manufacturing use product and is approved for use as an active ingredient in liquid disinfecting formulations on hard, non-porous surfaces.
- A purified form of glycolic acid, marketed as Glypure™, is widely used in cosmetic applications. Industrial grade glycolic acid is not acceptable for this category of product.
- Other solid and liquid glycolic acid grades available for specialty applications

### Our People

- Knowledgeable and committed laboratory and plant staff to address your technical needs
- Dedicated sales force available to support you, our customer

### Our Plant

- World's largest purpose-built facility with ISO 9001:2008 certification to ensure that we will meet your global supply needs
- Continuous operation ensures consistency and quality of product

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

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