# Glyclean® 70%

## Household and Industrial Cleaning




## Product Information

**INCI**: Glycolic Acid
**Chemical Structure**: 
**Chemical Formula**: $C_2H_4O_3$
**CAS No**.: 79-14-1
**Packaging**: Drums (250kg), IBC (1250kg), Bulk Tankers, Rail Cars
**Manufacturing Location**: Belle, WV USA

PureTech Scientific (formally DuPont/Chemours) has been the leading supplier of Glycolic Acid to customers and distributors worldwide for more than 85 years.

### Made for Household and Industrial Cleaning

Glyclean® 70% has been designed to meet the stringent needs of consumers and formulators in the Household and Industrial Cleaning space. PureTech Scientific™ has invested in creating the highest and most consistent quality Glycolic Acid available for the HIC market.

### Where is Glyclean® 70 used

Glyclean® 70 has a wide range of uses in the household and industrial cleaning market due to the unique chemistry of Glycolic Acid. Glyclean® 70 is both an effective descaler and chelate due to its small molecular size and dual functionality chemistry.

- General Hard Surface Cleaners
- Toilet Bowl Cleaners
- Shower Cleaners
- Laundry Sours
- Boiler Cleaners
- Water System Cleaning
- Concrete Dissolvers
- Automotive Cleaners

### Why Glyclean® 70?

Glyclean® 70% is the highest and the most consistent quality Glycolic Acid available.

- Lowest levels of Sulfates
- DCA Free*[1] (Dichloroacetic Acid)
- No-prop 65 labeling required
- Lowest Turbidity Specifications

Commitment to the highest quality supply chain and operations possible.

- Produced in Belle, WV USA with a completely domestic supply chain
- World's largest purpose-built facility with ISO 9001:2015 certification based proudly in Belle, WV USA (only producer in the Americas)
- 85 years of production history
- Ongoing investment in products and plant operations
- Global reach of warehousing and product availability

*1: Not Detected – property not detected via test; 5.40 ppb limit of quantification.

MADE IN USA

PureTech Scientific™

# Glyclean® 70 – Household and Industrial Cleaning

## Why Use Glyclean® 70

Glyclean® 70 is a purified Glycolic Acid 70% solution that has been designed by PureTech Scientific™ to meet the needs of today's consumers and formulators for household and industrial cleaning products.

Glycolic Acid combines a unique set of characteristics that enable it to be utilized in formulations either as a standalone active or as part of a blend to boost performance in cleaning formulations.

Some key characteristics of Glyclean® 70:

- Naturally occurring in sugarcane, beets, grapes and fruits
- Combines a low pKa with a small molecular size resulting in high performance at removing mineral scales
- Effectively complexes with hard water salts resulting in water-soluble and easily rinseable cleaning
- Effective in solubilizing inorganic silicates
- Low corrosivity potential when compared to other acids
- Ease of formulation, highly compatible with: mineral acids, organic acids, surfactants, biocidal agents, corrosion inhibitors, fragrances, and dyes.
- Boost performance of other organic and inorganic acids like: Citric, Sulfamic, Lactic
- Readily Biodegradable up to 90% in 7 days
- No harmful by-products
- VOC-Exempt with a slight burnt sugar odor
- Well-known consumer ingredient in personal care applications

Glyclean® 70, Glycolic acid, is the organic acid of choice for cleaning, and disinfecting applications. Glycolic acid in formulation will have superior cleaning performance than those utilizing Citric or Lactic acid alone. Glycolic acid is also less toxic, less corrosive, and easier to handle than mineral acids, HCL (Muriatic acid), Oxalic, or Sulfamic acid.

## Key Take Aways on Glycolic Acid for hard surface cleaners

Combines cleaning performance, ease of formulation, environmental safety, regulatory stability, and user experience into one active.

- Low toxicity: LD50 is 4,240 mg/kg in rats.
- Low volatility: <0.1 mmHg pressure at 25°C. (77°F) (= VOC-exempt) (per EPA and SCAQMD)
- Readily biodegradable: 89% degraded in 7 days (OECD 310/301), 86.6% (OECD 307)
- Low fat solubility: Octanol/water solubility = 8%/92% (KOW = –1.11)
- Low color: Very pale amber.
- Low odor: Very mild, burnt sugar odor.
- Nonflammable
- High water solubility: –19°C (–2°F) for 50%; 10°C (50°F) for 70% (the commercial product)
- Low corrosivity to most common metals and synthetic materials. (Formulations should be tested, on marble or natural stone surfaces, before use.)
- Chemical stability under most conditions (except to active metals or strong oxidizers, like peroxide, hypochlorite, etc.)
- Dedicated sales and technical support

PureTech Scientific's™ Glycolic acid is the industry standard. For 85 years PureTech Scientific™ has been dedicated to making the highest quality Glycolic acid and advancing the science of Glycolic acid into the future. Talk to us today about what solutions we can offer you and your customers.

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