

# Glycolic Acid

## Specification Sheet

**Description:** Glycolic acid is a naturally occurring alpha hydroxy acids (or AHAs). Synonym: hydroacetic acid. Concentration: 70% (30% water). Grade: CG

**CAS:** 79-14-1, 7732-18-5

**INCI Name:** Glycolic acid

**Composition:** Glycolic acid, water

**Appearance:** Clear, slightly yellowish liquid, characteristic odor

### Benefits:

- Can reduce the appearance of fine lines, irregular pigmentation, age spots & decreases enlarged pores.
- Very useful in exfoliating products as alpha-hydroxy acid peel, or in creams & lotions at a lower concentration for a more gentle acid-based peel.
- Widely used to rejuvenate the skin by encouraging the shedding of old surface skin cells.

**Use:** Typical use level is between 1-20% (final concentration of glycolic acid). For making a 10% AHA peel, use about 14.5% of glycolic acid 70, making a 5% AHA peel, use about 7.2%. For home use, it is not recommended to make AHA peels higher than 20% (equals about 28.5% of glycolic acid).

**Applications:** Peels, creams, lotions, masks, cleansers. Due to its acidity the final product needs to be tested for safe pH. Optimal pH range from 3.5-5.0. Some over the counter products, after adding glycolic acid, will separate as a result of the low pH, and need to be stabilized.

**Solubility:** Water-soluble

**Preservation:** Preservative-free

**Storage:** Store light-protected at a cool and dry place.

**Country of Origin:** USA

**Raw material source:** Monochloroacetic acid



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**Manufacture:** Glycolic acid is produced by hydrolysis of molten monochloroacetic acid with 50% aqueous sodium hydroxide at 90-130 deg C. The resulting glycolic acid solution is about 70% concentrated.

**Animal Testing:** Not animal tested.

**GMO:** GMO-free (does not contain plant-derived components)

**Vegan:** Does not contain animal-derived components.

**HS Code:** 1518004000