

# GlyAcid<sup>®</sup>

GLYCOLIC ACID  
FORMALDEHYDE FREE

## Molecular Efficacy

### Same Molecule, NextGen Chemistry

Historically, glycolic acid has been produced with formaldehyde as a raw material. GlyAcid<sup>®</sup> is a next generation, high purity glycolic acid produced with proprietary acid saponification and purification chemistry designed specifically for personal care. Our process does not use formaldehyde in the manufacturing process delivering on the fundamental tenants of clean beauty awareness and responsibilities.

While GlyAcid<sup>®</sup> is synthesized differently, the analysis to the right demonstrates a molecular efficacy consistent with traditional chemistries.

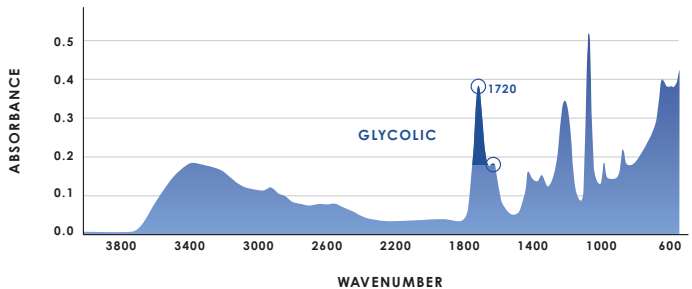


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### FTIR Spectrum

#### Glycolic Acid Standard

Glycolic acid is actually an equilibrium between glycolic acid and glycolide (1,4-dioxane-2,5-dione). This equilibrium is evident in the IR by the two peaks found in the carbonyl region at 1720 cm<sup>-1</sup> and 1630 cm<sup>-1</sup>.



#### Comparative Overlay

To ensure efficacy with existing products, we compared the FTIR spectrum of three CrossChem GlyAcid<sup>®</sup> lots with a leading competitor. As shown in the overlay below, GlyAcid<sup>®</sup> possesses an identical infrared spectrum.

