



## Biobased and Renewable Chemicals

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## Levulinic Acid

Our signature product at GFBiochemicals is levulinic acid (LA), an intermediate platform chemical with huge potential in chemicals and fuels. Levulinic acid was recognized by the US Department of Energy as one of twelve biobased building block chemicals of the future.

Levulinic acid is a carbon-based compound (C<sub>5</sub>H<sub>8</sub>O<sub>3</sub>) with potential to generate value-added derivative chemicals and biofuels. Our products offer applications across industries and sectors.

Levulinic acid offers these great opportunities:

- High conversion yields improve efficiency, while reducing waste and cost. This return on investment results in savings that we pass down to customers
- Synthetic versatility that allows for various downstream transformations and production of valuable derivatives
- An excellent non-toxic antimicrobial that extends product shelf life

The full potential of levulinic acid promises exciting developments, new applications and markets.