

e-liquids for vaping, and antifreeze solutions.

Chemical Properties

- Alcoholic Nature: As a diol, propylene glycol has two hydroxyl groups, which make it a versatile alcohol that can participate in various chemical reactions.
- Oxidation: Propylene glycol can be oxidized to lactic acid or pyruvic acid, depending on the conditions.

- Esterification: It can react with carboxylic acids to form esters, which are often used in fragrances and flavorings.
- Dehydration: Under acidic conditions, propylene glycol can undergo dehydration to form propylene oxide, a more reactive compound used in industrial applications.
- Polymerization: Propylene glycol can be polymerized to produce polyesters and polyurethanes, materials used in various industrial applications.

