



## Ruhr-Petrol

### Propylene

Propylene is a key raw material in the chemical industry and is used in a wide range of applications. The efficient extraction and responsible use of this material are essential to make the industry sustainable and future-proof. With the increasing demand for polypropylene and other propylene-based products, the importance of this chemical building block will continue to grow in the future.

### Bioethanol

Bioethanol is a renewable, eco-friendly resource produced from agricultural feedstocks such as grain, sugar beet as well as from waste and residues such as straw. Serving as a sustainable alternative to fossil fuels, it is mainly used in fuel blends like E10 and E85 to lower CO2 emissions and reduce dependence on traditional gasoline. On average, bioethanol saves over 90 percent of greenhouse gas emissions compared with fossil gasoline. With the growing shift toward renewable energy, the role of bioethanol in sustainable industrial development continues to expand being an important component for the beverage and food industry as well as the chemical industry where it is used in pharmaceutical and cosmetics products (amongst others).

### Methanol

Methanol, also known as methyl alcohol, is a crucial raw material in the chemical industry. It is used to produce important compounds like formaldehyde, acetals, ethylene glycol, and methylamine. Methanol also plays a significant role in energy production, particularly as a fuel in engines and in direct methanol fuel cells, which offer an eco-friendly alternative to fossil fuels. Despite limited use in the food industry, methanol is important for extracting flavors and dyes. Its versatility makes it essential across industries, and its demand is likely to grow.

