

Vegetable oil to alpha olefins: a new direct value chain emerges in the chemical industry

Verbio is pioneering renewable and sustainable solutions for mobility, chemical and pharmaceutical industry, food, feed, cosmetics and agriculture. In its biorefineries in Europe, North America and India, Verbio processes biomass and residues from regional agriculture into climate-friendly fuels, green energy and renewable components for the chemical industry.

In 2026 Verbio's first-of-its-kind rapeseed methyl ester to α -olefins biorefinery using olefin metathesis will be operational. Here we provide an overview on the status of the project, the products resulting from it and will show application examples how to use the main products methyl-9-decenoate (9DAME), 1-decene and C18 diacid (ODDA) in applications. Biobased Polyalphaolefins, C10 based surfactants with European origin or innovative polymers can be produced. Verbio pursues a business with a local supply chain and will supply biobased products low CO₂ footprint. Starting 2026, Verbio will bring 60kta of renewable, biobased molecules to the market. In the future, this innovation can serve as a platform for the specialty chemicals industry to redirect existing biodiesel product streams towards the chemical industry.

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