SUSTAINABILITY BEGINS AT THE SOURCE
EPICHLOROHYDRIN
100% Bio-based
Epicerol® is bio-based epichlorohydrin (ECH) produced using an innovative and patented process based on glycerol. Glycerol is a renewable feedstock and a by-product of biodiesel and oleochemical production.

Epicerol® offers significant environmental advantages compared to propylene-based ECH from fossil fuel.

Epicerol® process advantages include:

- Lower water and chlorine input
- Minimal water effluent and chlorinated by-products
- 100% Renewable carbon
- 61% Reduction in Global Warming Potential (GWP)
- 57% Less energy consumption

A bio-based building block for a broad range of industries

Epicerol® is a key raw material for epoxy resins, which have a wide range of applications:
- Paints and coatings
- Composites
- Electronic components
- Adhesive and sealants

It is also a building block for non-epoxy products including:
- Paper chemicals
- Water treatment chemicals
- Surfactants
- Optical lens monomers
- Synthetic rubbers
- Pharmaceutical ingredients
Reach your environmental goals with Epicerol®

By choosing Epicerol® over propylene-based ECH, downstream users reduce the impact raw materials have on their end-products' carbon footprint.

A comparative Life Cycle Analysis (LCA) on Epicerol® and propylene-based ECH confirms the environmental benefits of Epicerol®.

This cradle-to-gate assessment was audited and validated by DEKRA, a leading certification body in environmental management.

Incorporating 1 MT of Epicerol® instead of propylene-based ECH reduces your product's carbon footprint by 2.56 MT CO₂ equivalent

Partnerships

ABT partners with leading companies throughout the value chain who valorise Epicerol®:

- AkzoNobel has progressively increased the use of epoxy resins derived from Epicerol® since 2013 to reduce its environmental footprint.
- EY collaborates with ABT and AkzoNobel to develop ProBioTracker, a monitoring system to track and quantify bio-based feedstock used across value chains.
ADVANCED BIOCHEMICAL (THAILAND) CO., LTD. (ABT) produces Epicerol®, a bio-based epichlorohydrin (ECH). It has operated a worldclass manufacturing unit in Map Ta Phut since February 2012.

Since February 2017, ABT has become a member of AGC Group through the acquisition of a major equity stake of Vinythai Public Company Limited (VNT), its mother company, by AGC Asahi Glass (AGC). The AGC Group is now the largest supplier of chlor-alkali products in Southeast Asia.

Epicerol® is a market-competitive ECH and the most sustainable in terms of CO₂ emissions and process environmental performance.

For a renewable solution with a lower carbon footprint, contact ABT for a tailor-made quote. ABT has sales teams that understand your business needs.

Epicerol® is produced by Advanced Biochemical (Thailand) Co., Ltd. or ABT. In 2015, it proudly became the first Biochemical producer in Asia to be certified by the Roundtable on Sustainable Biomaterials (RSB) Standard.

This demonstrates that ABT is delivering a socially and environmentally ethical biochemical.

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ABT’s RSB participant code is 1413