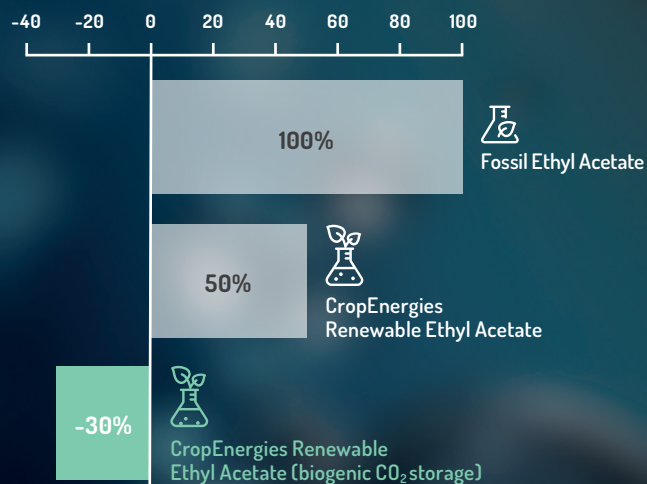


## YOUR BENEFITS

Our renewable ethyl acetate is the raw material for bio-based products that contribute sustainably to reducing your carbon footprint.



100 %  
bio-based

CO<sub>2</sub>-reduction

Drop-in  
solution

**readis**  
Renewable  
Ethyl Acetate

European  
production

Certified

## DATA SHEET

### Ethyl acetate from renewable ethanol

Ethyl acetate is produced from ethanol of agricultural origin and is made by the fermentation of syrups and cereals containing carbohydrates.

Ethyl acetate is a clear, colourless liquid.

#### Specification

Parameter	Unit	Limit	Method
Purity	% (w/w)	Min. 99.8	Gas Chromatography
Water Content	% (w/w)	Max. 0.03	ASTM E 1064
Ethanol	% (w/w)	Max. 0.02	Gas Chromatography
Acidity	% (w/w)	Max. 0.005	ASTM D 1613
Non-Volatile Components	% (w/w)	Max. 0.002	ASTM D 1353

Parameter	Unit	Typical	Method
Density (20 °C)	g/mL	0.899 – 0.901	ASTM D 4052
Boiling Point	°C	76 – 78	ASTM D 1078
Water Solubility	g/100 mL	8.3	ASTM D 1722
Refractive Index (20 °C)	-	1.370 – 1.376	DIN 51423

**Disclaimer:** All information given in this product data sheet is based on our current knowledge and experience. Due to different possible applications beyond our control, we do not assume any liability for the suitability of our products. This information does not relieve the user of their obligation to perform their own examination and tests.

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GROUP

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**readis**  
RENEWABLE  
ETHYL ACETATE

**SÜDZUCKER**  
GROUP

## SUSTAINABLE, RENEWABLE PRODUCTS MADE FROM BIOMASS

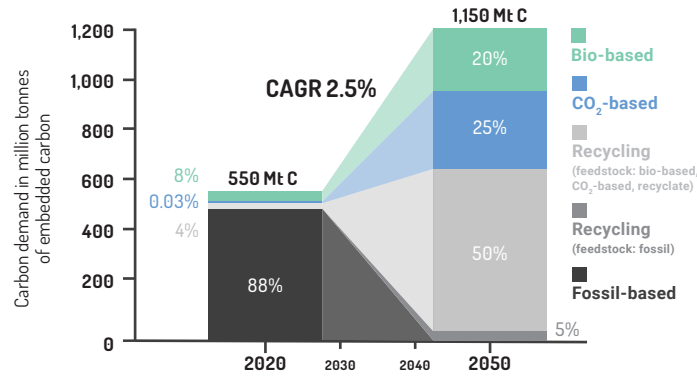
The exclusive use of renewable carbon as a raw material is a key prerequisite for the chemical industry to achieve climate neutrality.

Sustainable, renewable products made from biomass – that is what CropEnergies stands for. Our products (e.g. ethanol) contribute to a climate-friendly world and ensure that fossil carbons remain in the ground permanently. The first product from our new biochemicals business will be bio-based ethyl acetate of the highest quality.

CropEnergies AG, Mannheim, and Johnson Matthey, London, a leader in sustainable technologies, have entered into an engineering, license, and technical services agreement for a plant to allow us to produce renewable ethyl acetate from sustainable ethanol near our production site in Zeitz, Germany.

## GLOBAL CARBON DEMAND FOR CHEMICALS AND DERIVED MATERIALS

Fossil carbons must be replaced in the future.



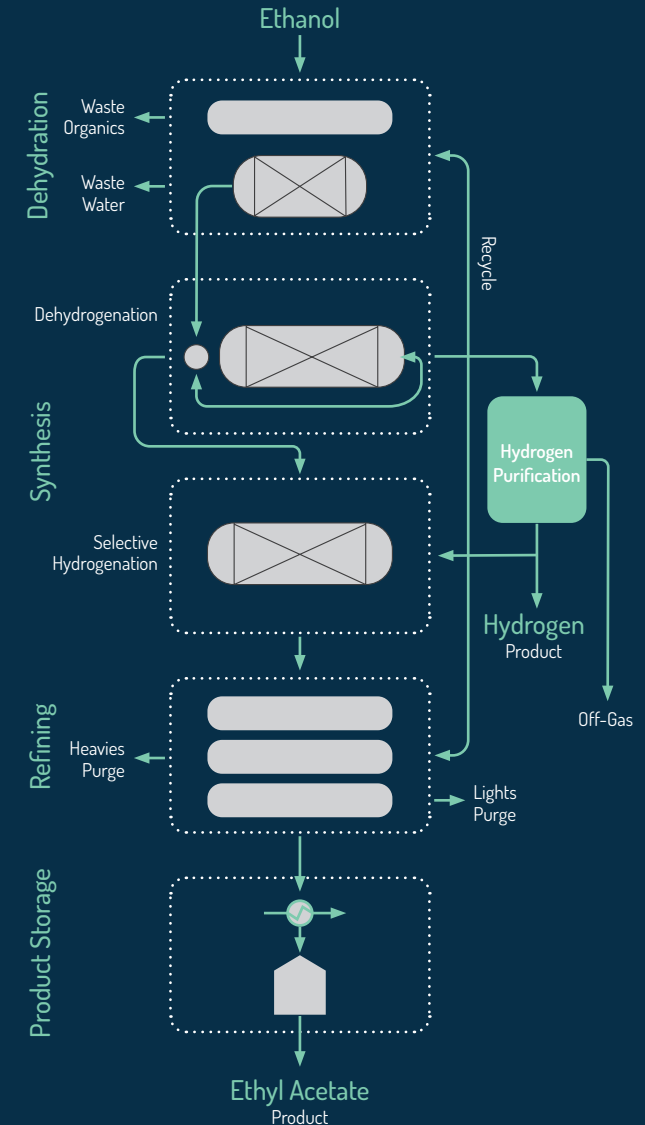
Source: Renewable Carbon as a Guiding Principle for Sustainable Carbon Cycles, a paper by the Renewable Carbon Initiative, October 2023 ([www.renewable-carbon.eu/graphics](http://www.renewable-carbon.eu/graphics))

The exclusive use of renewable carbon as a raw material is a key prerequisite for the chemical industry to achieve climate neutrality. The use of renewable carbon is to the chemical and derived material industries what decarbonisation is in the energy sector.

Decreasing carbon demand from the energy sector and increasing demand from the chemical & materials sector is leading to a fundamental change in the balance structure between energy and chemicals & materials: while the embedded carbon demand from chemicals & materials is now very small compared to the energy sector, demand from both sectors will be almost equal in 2050.

## TECHNOLOGY

The DAVY™ ethyl acetate process uses ethanol only as a raw material. Hydrogen is produced as a by-product.



- 
from 01/2022  
 Basic engineering
- 
12/2022  
 Final investment decision
- 
Q2 2024  
 Ground-breaking ceremony (Spatenstich)
- 
Q1 2027  
 Start of commissioning