

# ACETALDEHYDE



## OUR FINEST ACETALDEHYDE

### ACETALDEHYDE - PREMIUM PURE

Acetaldehyde of Premium Pure quality is manufactured from cellulose-based second generation ethanol, a waste product from existing production. This means that the raw material does not require any dedicated cultivated areas of its own.

### ACETALDEHYDE - PREMIUM

Acetaldehyde of Premium quality is produced from bioethanol obtained from raw products like sugar cane, corn or sugar beet.

## ACETALDEHYDE – AN IMPORTANT PLATFORM CHEMICAL

Acetaldehyde is a very important raw material in the production of a large number of chemical products, for example paint binders in alkyd paints and plasticizers for plastics. Acetaldehyde is also used in the manufacture of construction materials, fire retardant paints and explosives, while its uses within the pharmaceutical industry include the manufacture of sedatives and tranquilisers, among other things. Acetaldehyde can also be used as a raw material in the manufacture of acetic acid, another platform chemical with many applications.

Furthermore, acetaldehyde can also be used as an odorant, and it occurs naturally in fruit and fruit juices. Acetaldehyde occurs naturally during fermentation, and low levels of acetaldehyde are to be found in certain foods.

SEKAB produces acetaldehyde industrially through the catalytic oxidation of ethanol.

## GREEN ACETALDEHYDE – THE NATURAL CHOICE FOR THE CLIMATE AND THE ENVIRONMENT

SEKAB can supply green acetaldehyde to customers with high environmental demands. It is manufactured from biologically created ethanol and is produced with bio-based process energy. Production at SEKAB's chemical plant takes place in a closed circular flow system with advanced gas purification, which means that the degree of purification of by-products from the manufacturing process is more than 99 %. The process water is treated in an anaerobic water purification process, which means that the outgoing water's oxygen consumption is reduced by 80 - 90 %.

With the help of these techniques and products, we help companies to create green products and greener operations by keeping their processes and products as carbon-neutral as possible. The difference in comparison with fossil-derived acetaldehyde is significant – 0.75 kg as opposed to 5.7 kg CO<sub>2</sub> per kg produced acetaldehyde. The segment is new and unique and provides you, the customer, with a new possibility to choose the best conceivable solution among the alternatives available on the market.

More information about our premium products is available at [www.sekab.com/premium](http://www.sekab.com/premium). There you can also find our contact details.