

A photograph of the Tortosa factory, featuring several tall, silver, cylindrical industrial towers and a complex network of pipes and walkways. The sky is blue with scattered white clouds. The foreground shows a green lawn and a paved path.

Tortosa factory

Key facts about Ercros 2024

1989
Foundation

1.335
Staff

10
Factories

700 M€
Income

29 M€
Ebitda

55,5%
Export
(>100
countries)

Production centres

Chlorine derivatives

Intermediate chemicals

Pharmaceuticals



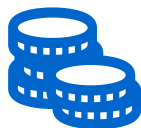
PRODUCTS APPLICATIONS

Divisions	Products	Applications
Chlorine derivatives	Caustic potash Caustic soda Chlorine EDC Hydrochloric acid PVC Sodium chlorate Sodium chlorite Sodium hypochlorite Trichloroisocyanuric acid (TCCA) VCM	Chemical industry Industry in general Manufacture of derivatives Manufacture of VCM Industry in general Construction Bleaching of paper pulp Water treatment Water treatment Swimming pool water Manufacture of PVC
Intermediate chemicals	Dipentaerythritol Formaldehyde Moulding compounds Paraformaldehyde Pentaerythritol Resins Sodium formate	Paints Manufacture of derivatives Electrical and sanitary material Resins Paints Lumber industry Tanning industry
Pharmaceuticals	Erythromycins Fosfomycins Fusidic acid	Skin infections Respiratory infections Urinary infections

Key data 2024



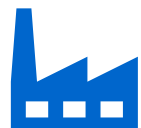
Staff: 115 people



Sales: 643 M€



Export: 54%



Markets: Worldwide



Location: Baix Ebre industrial estate



Products, applications and market shares

- Formaldehyde is the central product of the Tortosa factory and methanol is the main raw material.
- Formaldehyde is used in the manufacture of the following polyols: pentaerythritol, dipentaerythritol, and sodium formate.

Products	Applications
Dipentaeritritol	Synthetic lubricants
Formaldehyde	Manufacture of derivatives
Sodium formate	Tannery industry
Pentaeritritol	Paintings

Market Share Ranking			
	Spain	Europe	World
Formaldehyde	1st	5th	-
Poliols	1st	2nd	3rd

The data provided come from calculations made by Ercros.

Production and facilities

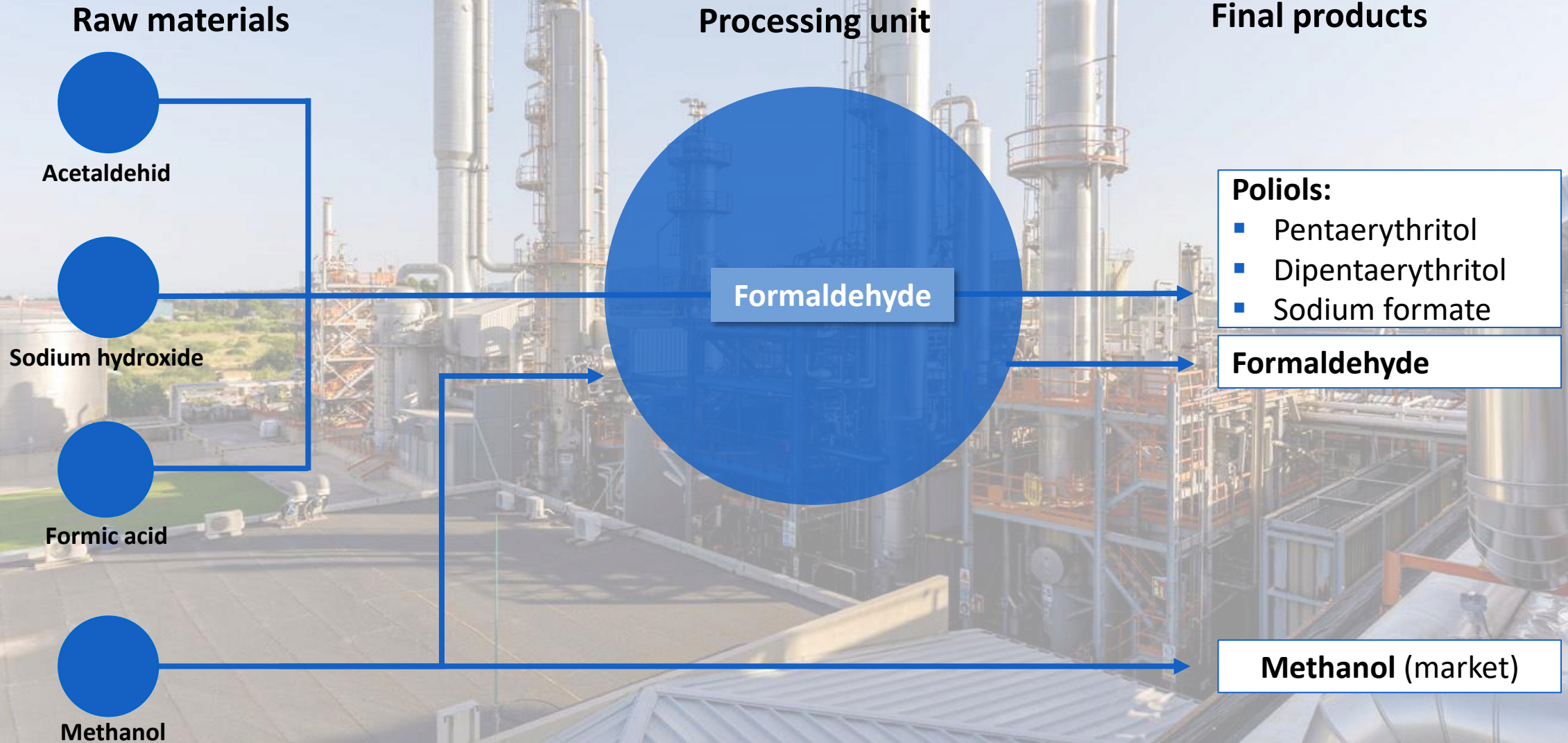
309,000 t/year
Production
capacity

3
Formaldehyde
plants

2
Plantes de
pentaeritritol

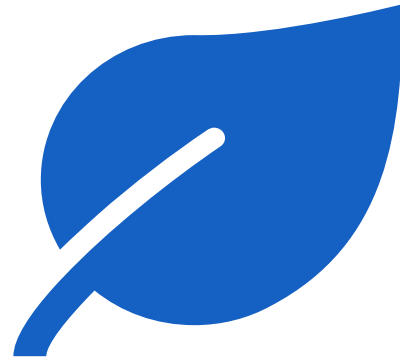
1
Plant
dipentaerythritol
and sodium
formate

Production process

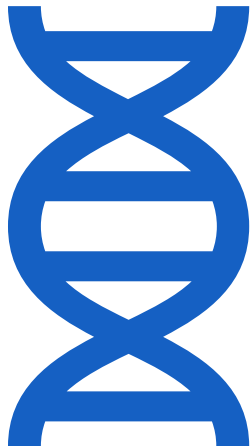
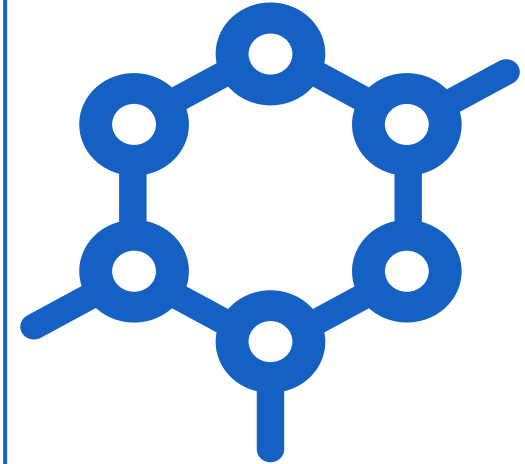


Formaldehyde (CH_2O)

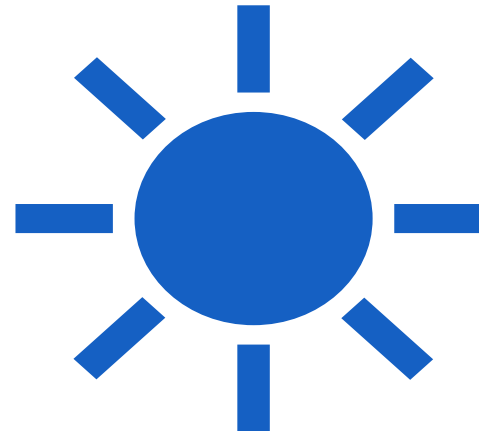
It is an organic chemical compound that occurs naturally in the environment.



It can also be manufactured for use on an industrial scale. It is extremely versatile.

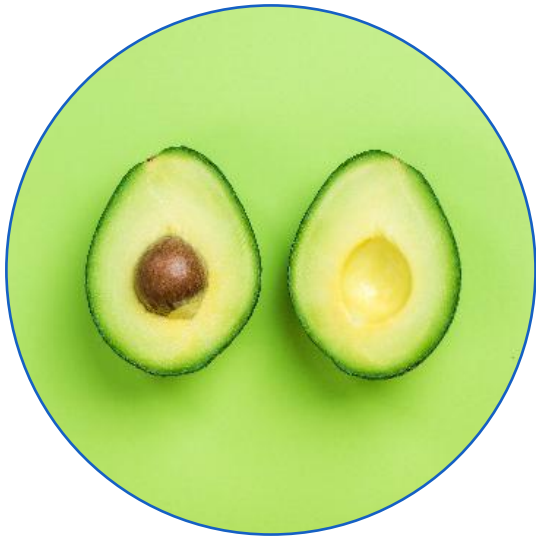


It disappears due to the effect of the sun and bacteria within a few hours, and breaks down quickly during the human metabolic process.



It is essential in the development of DNA proteins and is found in the blood of humans and other mammals.

Formaldehyde, present in our environment



In foods, such as fruits, meats and vegetables (sometimes in large doses).



In the natural decomposition of methane (from livestock farms).



In other volatile compounds produced by human activity (cars, kitchens, heating).

Pentaerythritol ($C_5H_{12}O_4$) and dipentaerythritol ($C_{10}H_{22}O_7$)

Pentaerythritol

Applications

- Resins and lubricants.
- Paints and plasticizers.
- PVC stabilizers.
- Printing inks.
- Polyurethane foams.
- Explosives.



Markets

- The only Spanish producer.
- Export: $\pm 90\%$ of production.

Dipentaerythritol

Applications

- Synthetic lubricants.
- Special inks.
- PVC stabilizers.



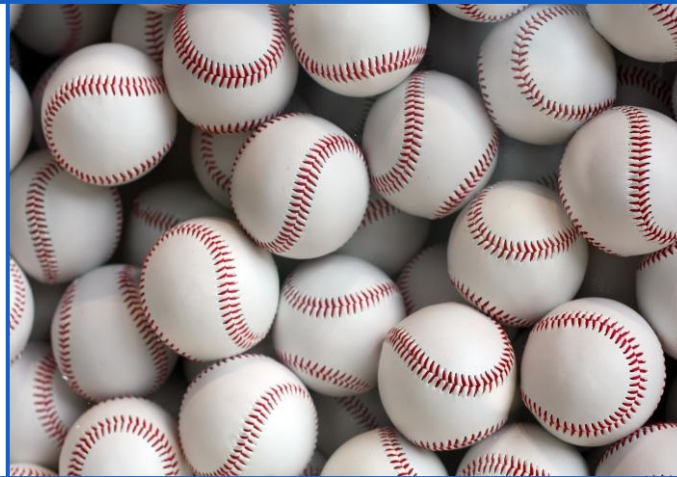
Markets

- Exports: + 80% of production.

Sodium formate ($\text{CH}_2\text{O}_2\text{Na}$)

Applications

- Leather treatment.
- Production of sodium hydrosulfite and formic acid.



Markets

- Main ones: Spain and Portugal.
- Others: Europe, South America and Asia.

Did you know?

It is used as an antifreeze on airport runways because it is less polluting than salt.



The 3D Plan in Tortosa

- The 3D Plan is the strategic plan launched by Ercros, which pursues its transformation into a sustainable company and is based on three dimensions: diversification, digitization and decarbonization.
- Main actions at the Tortosa factory:
 - Expansion of dipentaerythritol's production capacity, to gain market share in Asia and the USA.
 - Installation of units for the use of waste heat from processes, to maximise the use of waste energy to replace gas natural and, therefore, reduce CO2 emissions.
 - Under study, installation of a photovoltaic park of 6 GWh/y. Electrical energy generated from renewable sources would cover 18% of the the factory.



R+D

- The Tortosa factory is the headquarters of the R+D department of the intermediate chemicals division. The products and processes of this business have been developed in this center.
- The main R+D projects that are in the development phase are:
 - Improvement of the polyol process to increase production efficiency.
 - New range of ErcrosTech resins with various applications in wood laminates and metal coatings.
 - Improvement of the production process of moulding compounds to offer new qualities.



Certifications

- **ISO 45001:** Prevention management system.
- **SIGOS:** Healthy organization management system.
- **ISO 9001:** Quality management system.
- **ISO 50001:** Energy management system.
- **ISO 14001:** Environmental management system.
- **ISO 14064:** Verification of greenhouse gas (GHG) emissions.
- **UNE 19601:** Accreditation of the criminal compliance management system.
- **ISO 27001:** Certification of the data protection system.
- **CSR Company:** CSR certification, as a company in the Responsible Care program.
- **IBGC:** Certification of compliance with the Corporate Good Governance Index.



Governance and ESG

- **EcoVadis:** CSR rating agency. Ercros has obtained 87/100 points and is in the Platinum category and in the 1% of the best classified companies.
- **Responsible care:** A programme of good practices, worldwide, promoted by the chemical sector. Ercros has obtained 85/100 points in the self-assessment questionnaire.
- **Global Compact:** Programme promoted by the UN that contains ten principles of action.
- **ESG Lighthouse rating:** Promoted by the Spanish Institute of Analysts, it assesses the level of compliance with ESG criteria. Ercros has obtained 86/100 points.



Sustainable Development Goals (SDGs)

In the development of its activity, Ercros contributes to the fulfilment of the 17 SDGs set out in the UN 2030 Agenda, although it has a special impact on:

- **SDG 3:** Good health and well-being.
- **SDG 6:** Clean water and sanitation.
- **SDG 7:** Affordable and clean energy.
- **SDG 8:** Decent work and economic growth.
- **SDG 9:** Industry, innovation and infrastructure.
- **SDG 12:** Responsible consumption and production.
- **SDG 13:** Climate action.



Associations



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