

# Propionaldehyde

## Chemical intermediate

### Product Description

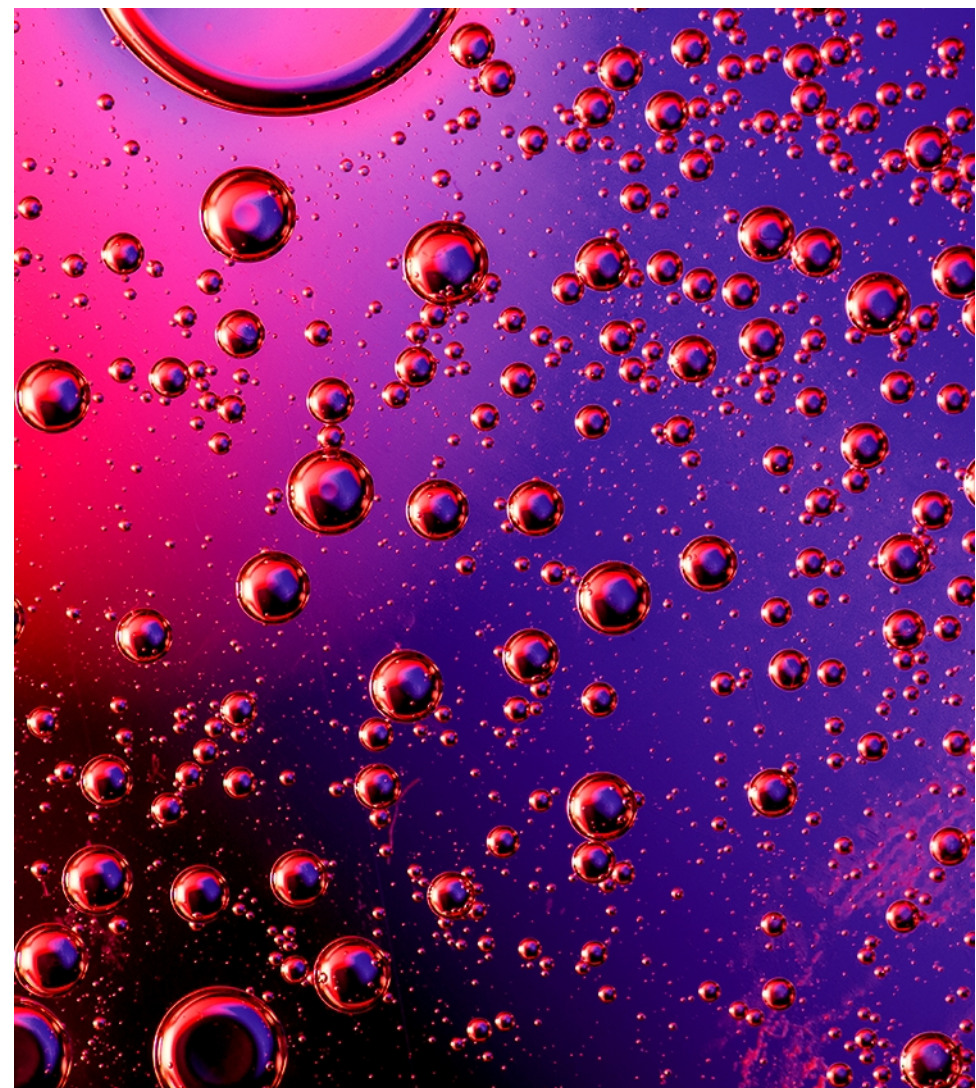
Propanal or Propionaldehyde (PRAL) is the chemical intermediate in the production of propionic acid. It is also used for the production of Perstorp's Bis-MPA.

### Segment Applications

Pharmaceutical applications, Plastics, Plasticizers, Lacquers, Flavorings, Cellulose and Rubber chemicals.

### Delivery Forms

Bulk



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### Sales Specification

Characteristics	Unit	Specification	Analytical Method
Color	Hazen	Max. 15	ISO-2211/ASTM D 1209
Purity (as water-free)	%	Min. 99.0	ISO 2718 (GC)
Water content	wt. %	0.8-1.5	ISO 2718 (GC)
Acidity as propionic acid	%	Max. 0.20	ISO 2718 (GC)

### General Characteristics

Characteristics	Typical Value <sup>1</sup>
Appearance	Clear colorless liquid

1. Typical values are for information only and not part of sales specification

### Regulatory Information

Uses are limited to the ones under strictly controlled conditions (SCC)  
EC (EINECS) n°.: 204-623-0

### Handling and Storage

Propionaldehyde is highly reactive and forms potentially explosive peroxides when exposed to air. Storage under a nitrogen atmosphere is recommended. Addition of small amounts of water also reduces peroxide formation and provides stabilization against metal-catalyzed condensation and/or polymerization. The storage temperature should not exceed 30°C.

Propionaldehyde is stored in stainless steel, phenolic lined carbon steel, or aluminum containers to avoid contamination with metal salts which may be present in the construction materials. Even at low concentration these salts can cause condensation and/or polymerization. This can also be caused by exposure to light or oxygen. Storage at low temperatures does not prevent this type of reaction. When stored as recommended, the shelf life is limited to six months.

CAS No.: 123-38-6  
HS No.: 2912 19

Effective date: October 31, 2022

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