

## Formaldehyde Solution

## PRODUCT INFORMATION

### Formalin

**Appearance:** Colorless, pungent-smelling liquid

**Molecular formula:** CH<sub>2</sub>O

**CAS-No.:** 50-00-0

**EC-No.:** 200-001-8

**REACH-No.:** 01-2119488953-20-0008

**Commercial form:** Aqueous solution, assay from 23.5 - 55 %, stabilized and unstabilized; methanolic or methanol-free. Special qualities upon request.

**General properties:** Formaldehyde is a colorless, pungent-smelling gas which is hydrolyzed in water and builds low-molecular oligomers in the common form HO (CH<sub>2</sub>O)<sub>n</sub> H with n = 2 - 8.

Formaldehyde is one of the most reactive organic compounds. The aqueous solutions are colorless, clear liquids and are not stable due to a slow polycondensation process. Concentrations above 30% (weight) get turbid at room temperature after short time, followed by precipitation of higher molecular Polyoxymethylenes (Paraformaldehyde). With additional stabilizers this process can be significantly slowed down so that even higher concentrated Formaldehyde-solutions are manageable.

Assay (wt %)	23.5	30	37	37	40	44	49	55
Methanol (wt %) max.	1.9	1.5	1.5	8-12	1.5	1.5	1.5	1.5
Formic acid (Gew. %) max.	0.02	0.02	0.02	0.02	0.25	0.3	0.35	0.35
Storage temperature ° C	40	40	40	40	45	50	55	60

**Packaging:** Tank truck, approx. 25 mt  
Rail car, approx. 20 - 65 mt

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(Formalin)

<b>Storage:</b>	Depending on concentration, Formaldehyde should be stored at adequate temperature. Under these conditions the solutions are shelf stable for approx. 3 weeks; preventing the formation of Paraformaldehyde. Storage in adequate V2A- / V4A-steel, glass oder PE containers.
<b>Chemical and physical properties:</b>	On request.
<b>Handling:</b>	Quality-specific instructions you find in the respective Security Data Sheet.
<b>Application:</b>	<ul style="list-style-type: none"><li>· Production of Phenolic-, Urea- and Melamine-resins</li><li>· Production of Formaldehyde, Hexamethylentetramine, Pentaerythrit, NPG, TMP, MDI</li><li>· Production of Ion-exchange- and Polyacetale-resins</li><li>· Intermediates for the Chemical Industry</li><li>· Production of Colors, Leather-, Paper- and Textile-Additives, Technical preservatives, Rubber additives and herbicides</li></ul>
<b>Transport classification:</b>	Formaldehyde - solutions with Formaldehyde content higher than 25% are classified as dangerous goods (UN 2209). Formaldehyde - solutions are hazardous materials. Further information in our MSDS.

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