

# Formaldehyde

**Formaldehyde** is supplied by GEO Specialty Chemicals in solution form.

**Formaldehyde** solutions are clear and colourless, with a characteristically strong, pungent odour.

CAS Number: 50-00-0

## Specifications \*

Property	Value
Formaldehyde, wt %	4 to 52
Methanol content, wt %	< 1 to 15
Acidity, wt %	0.03 to 0.05
Colour, APHA	< 10
Sodium, mg / l	< 10

## Typical Physical Properties \*\*

Property	Value
Appearance	<b>Clear and colourless</b>
pH	<b>2.2 to 5.6</b>
Specific gravity	<b>1.07 to 1.16</b>

### EUROPE

Charleston Road, Hardley,  
Hythe, Southampton, Hampshire  
SO45 3ZG UK  
Call +44 2380 245 437

### NORTH AMERICA

300 Brookside Avenue,  
Building #23, Suite 100 Ambler,  
PA 19002 USA

Call +1 215 773 9280 Toll

Free 888 519 3883

Email: [PaintsandCoatings@geosc.com](mailto:PaintsandCoatings@geosc.com)

[www.geosc.com](http://www.geosc.com)

\* GEO formaldehyde solutions can be blended to meet most specifications; please contact your local GEO Specialty Chemicals representative.

\*\* The typical values presented here are believed to be accurate; they should not, however be considered to constitute a specification.

### Applications

**Formaldehyde** is a raw material used in hundreds of everyday products. It is a basic building block chemical essential to the operation of more than 80 industries.

### Construction

A major use of **formaldehyde** is in the manufacture of adhesive resins for plywood, fibreboard and particleboard for residential and commercial construction. Urea-formaldehyde resins are a principal component of foam in-place insulation for homes. Also, many paints and varnishes are based on **formaldehyde**.

### Molding compounds

Molding compounds made using **formaldehyde** resins appear in buttons, dinnerware, cookware handles, light switch cover plates, PC circuit boards and scores of other products. Foundries require **formaldehyde** for bonding the molds used to make castings.

### Textiles

**Formaldehyde** resins are an important in imparting permanent press to textiles.

### Paper

**Formaldehyde** resins are used to bond the fibres in paper to make them more absorbent.

### Other uses

A rapidly growing, relatively new use is in manufacturing tough, hard polyacetal plastics that help reduce the weight of automobiles to increase mileage. It is also used in the hard, durable personal computer keyboards, printers and CPU enclosures. Other specialty applications include shampoos, hand lotions, toothpastes, disinfectants, embalming fluids, fumigants, leather tanning agents and oil well drilling mud additives.

**Registration & Regulatory Information:** Please refer to the safety datasheet.

**Handling & Storage:** Formaldehyde is available in full truck load quantities.

Formaldehyde solutions should be used as soon as is practical. Shelf-life may vary from 1 week for high formaldehyde assay solutions to indefinite for solutions with a high methanol content.

The NFPA Hazardous Materials Identification System rating for regular formaldehyde solutions is: Health Hazard - 3; Flammability - 2; Reactivity - 2. Solutions with a methanol content >10% have a flammability rating of 3.

Formaldehyde is classified as "DOT not regulated" by the US Department of Transportation. No special labelling is required for shipment. The Harmonized Tariff Code is 2912.11.

All information and data, including the formulations and procedures discussed herein, are believed to be correct. However, this should not be accepted as a guarantee of their accuracy, and confirming tests should be run in your laboratory or plant. No statement should be construed as a recommendation for any use which would violate any patent rights. Sales of all products are pursuant to terms and conditions included in GEO Specialty Chemicals sales documents. Nothing contained therein shall constitute a guarantee or warranty with respect to the products described or their use. Safety information regarding these products is contained in their Safety Data Sheets. Users of these products are urged to review and use this information.

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