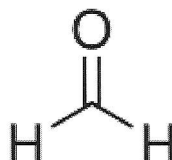


## Certificate of Analysis

Product Name:

Formaldehyde solution – ACS reagent, 37 wt. % in H<sub>2</sub>O, contains 10–15% Methanol as stabilizer (to prevent polymerization)

**Product Number:** 252549  
**Batch Number:** MKCM8973  
 Brand: SIAL  
 MDL Number: MFCD00003274  
 Formula: CH<sub>2</sub>O  
 Formula Weight: 30.03 g/mol  
 Quality Release Date: 17 JUL 2020  
 Recommended Retest Date: JUL 2022



Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Titration by H <sub>2</sub> SO <sub>4</sub>	36.5 - 38.0 %	36.6 %
Residue on ignition (Ash)	≤ 0.005 %	< 0.005 %
Color Test	≤ 10 APHA	0 APHA
Chloride (Cl)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 5 ppm	< 1 ppm
Heavy Metals by ICP-OES	≤ 5 ppm	< 1 ppm
Sulfate (SO <sub>4</sub> )	≤ 0.002%	≤ 0.002%
Titrateable Acid (meq/g)	≤ 0.006	< 0.006
Note Stabilized with 10% to 15% Methanol	Confirmed	Conforms
Meets ACS Requirements	Current ACS Specification	Conforms
Recommended Retest Period 2 Years	-----	-----

Michael Grady, Manager  
 Quality Control  
 Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

