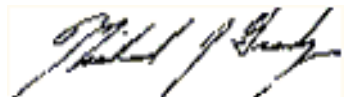


## Certificate of Analysis

**Product Name :** 4-Imidazolecarboxaldehyde 98%  
**Product Number :** 456128-5G  
**Batch Number :** 0000041345  
 Source Batch : MKBR0544V  
 CAS Number : 3034-50-2  
 Molecular Formula : C<sub>4</sub>H<sub>4</sub>N<sub>2</sub>O  
 Formula Weight : 96.09  
 Quality Release Date : 28 Jan 2014

Test	Specification	Result
Appearance (Color)	White to Yellow	Faint Yellow
Appearance (Form)	Conforms to Requirements	Crystalline Powder
Powder or Crystalline Powder		
Infrared Spectrum	Conforms to Structure	Conforms
Purity (Titration by HClO <sub>4</sub> )	97.5 - 102.5 %	99.8 %
Purity (GC)	≥ 97.5 %	100.0 %



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. Purchase must determine the suitability of the product for its particular use. See reverse side of website or packing slip for additional terms and conditions of sale.