

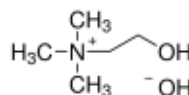
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## Product Specification

Product Name:  
Choline hydroxide solution - 20 wt. % in H<sub>2</sub>O

**Product Number:** 344257  
**CAS Number:** 123-41-1  
**MDL:** MFCD00002831  
**Formula:** C<sub>5</sub>H<sub>15</sub>NO<sub>2</sub>  
**Formula Weight:** 121.18 g/mol



TEST	Specification
Appearance (Color)	Conforms to Requirements
colorless to yellow to amber-brown to orange-brown to brown	
Appearance (Form)	Liquid
Infrared spectrum	Conforms to Structure
Refractive index at 20 ° C	1.368 - 1.372
Proton NMR spectra	Conforms to Structure
Titration with HClO <sub>4</sub>	19.0 - 22.0 %

Specification: PRD.1.ZQ5.10000003774

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.