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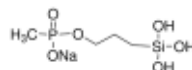
Outside USA: eurtechserv@sial.com

## Certificate of Analysis

Product Name:

3-(Trihydroxysilyl)propyl methylphosphonate, monosodium salt solution - 50 wt. % in H<sub>2</sub>O

**Product Number:** 435716  
**Batch Number:** SHBD9292V  
**Brand:** ALDRICH  
**CAS Number:** 84962-98-1  
**MDL Number:** MFCD00274617  
**Formula:** C<sub>4</sub>H<sub>12</sub>NaO<sub>6</sub>PSi  
**Formula Weight:** 238.18 g/mol  
**Quality Release Date:** 09 JAN 2014  
**Expiration Date:** DEC 2015



| Test   | Specification         | Result             |
|--|-----------------------|--------------------|
| Appearance (Clarity)                         | Clear to Hazy         | Very Slightly Hazy |
| Appearance (Form)                            | Liquid                | Liquid             |
| On standing, some phase separation may occur |                       |                    |
| Infrared Spectrum                            | Conforms to Structure | Conforms           |
| Loss on Drying                               | 47.50 - 52.50 %       | 48.01 %            |
| pH   | 9.00 - 13.00          | 11.89              |
| c = Neat                                     |                       |                    |
| Expiration Date Period                       | -----                 | -----              |
| 2 Years                                      |                       |                    |

Jamie Gleason, Manager  
 Quality Control  
 Sheboygan Falls, 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. 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.