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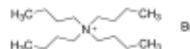
Outside USA: eurtechserv@sial.com

## Certificate of Analysis

Product Name:

Tetrabutylammonium bromide - ACS reagent, ≥98.0%

**Product Number:** 426288  
**Batch Number:** MKBQ5296V  
**Brand:** SIAL  
**CAS Number:** 1643-19-2  
**MDL Number:** MFCD00011633  
**Formula:** C<sub>16</sub>H<sub>36</sub>BrN  
**Formula Weight:** 322.37 g/mol  
**Quality Release Date:** 11 NOV 2013



| Test                           | Specification             | Result             |
|--------------------------------|---------------------------|--------------------|
| Appearance (Color)             | White                     | White              |
| Appearance (Form)              | Conforms to Requirements  | Crystalline Powder |
| Crystals or Crystalline Powder |                           |                    |
| Infrared Spectrum              | Conforms to Structure     | Conforms           |
| Titration by AgNO <sub>3</sub> | ≥ 98.0 %                  | 100.1 %            |
| Impurity                       | ≤ 0.5 %                   | 0.2 %              |
| Tributylamine                  |                           |                    |
| Impurity                       | ≤ 0.5 %                   | 0.2 %              |
| Tributylamine Hydrobromide     |                           |                    |
| Meets ACS Requirements         | Current ACS Specification | Conforms           |
| Tenth Edition                  |                           |                    |

Jamie Gleason, Manager  
 Quality Control  
 Milwaukee, Wisconsin 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.