

Version Molecular weight Quality Test / Release Date Molecular Formula CAS No Linear Formula Flash Point (°C) 00 89.14 01/04/2019 C4 H11 N O 39884-48-5 NH2(CH2)2CH(OH)CH3

## Certificate of Analysis

This is to certify that units of the above mentioned lot number were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Acros Organics expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Unless otherwise stated, these products are not intended for dialysis, parenteral, or injectable use without further processing. The following are the actual analytical results obtained:

| Catalog Number        | 33023                 | Quality Test / Release Date 01/04/2019 |
|-----------------------|-----------------------|--|
| Lot Number            | A0403911              |  |
| Description           | 4-Amino-2-butanol,98% |  |
|                       |                       |  |
| Country of Origin     | GERMANY               |  |
| Declaration of Origin | synthetic             |  |
|                       | •                     |  |
| BSE/TSE comment       |                       |  |

**Chemical Comment** 

| Result name          | Units | Specifications                  | Test Value            |
|----------------------|-------|---------------------------------|-----------------------|
| Appearance (Color)   |       | Clear colorless to light yellow | Clear colorless       |
| Appearance (Form)    |       | Liquid                          | Liquid                |
| Infrared spectrum    |       | Conforms                        | Conforms              |
| Titration with HCIO4 |       | >=97.5 %                        | 100.2 %               |
| GC                   |       | >=97.5 %                        | 98.7 %                |
| Refractive index     |       | 1.4518 to 1.4538 (20°C, 589 nm) | 1.4530 (20°C, 589 nm) |



Block

L. Van den Broek, QA Manager

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Acros Organics

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