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|-----------------------------|--------------------|
| Version | 00 |
| Molecular weight | 153.61 |
| Quality Test / Release Date | 08/21/2018 |
| Molecular Formula | C5 H11 N O2 . Cl H |
| CAS No | 13031-60-2 |
| Linear Formula | |
| Flash Point (°C) | |

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 | 44291 | Quality Test / Release Date 08/21/2018 |
| Lot Number | 343842 | |
| Description | Methyl 4-aminobutyrate hydrochloride, 99% | |
| Country of Origin | CHINA | |
| Declaration of Origin | synthetic | |

| | |
|------------------------|--|
| BSE/TSE comment | |
|------------------------|--|

| | |
|-------------------------|--|
| Chemical Comment | |
|-------------------------|--|

| Result name | Units | Specifications | Test Value |
|-------------------------|-------|--------------------|---------------------------|
| Appearance (Color) | | White to off-white | White |
| Appearance (Form) | | Powder | Crystalline solid |
| Infrared spectrum | | Authentic | Authentic |
| Titration Argentometric | | 98.5 to 101.5 % | 100.26 % |
| NMR (1H-NMR) | | | Consistent with structure |



A handwritten signature in black ink, appearing to read "L. Van den Broek".

L. Van den Broek, QA Manager

Issued: 08-22-2018

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