



*The Power to Question*

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-224781  
Lot Number: SAMPLE  
Product Name: 1-Pentynylboronic acid pinacol ester  
CAS Number: 634196-62-6  
Molecular Formula:  $C_{11}H_{19}BO_2$   
Molecular Weight: 194.08

| Test                                  | Specification              | Result        |
|---------------------------------------|----------------------------|---------------|
| Appearance                            | Colorless to yellow liquid | Yellow liquid |
| Gas Liquid Chromatography             | $\geq 88.0\%$              | 93.4%         |
| Identification (1H-NMR)               | Consistent with structure  | Complies      |
| Identification (13C-NMR)              | Consistent with structure  | Complies      |
| Identification (11B-NMR)              | Consistent with structure  | Complies      |
| Identification (Infrared Spectrum)    | Consistent with structure  | Complies      |
| Purity (Sodium Hydroxide Titration)   |                            | 93.4%         |
| Refractive Index (n <sub>20</sub> /D) |                            | 1.4479        |

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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