

## Certificate of Analysis

Date of Testing: 2025-03-14 15:35:38

Date of Next Testing: 2028-03-13 15:35:38

Product Name: **Ethyl (S)-1-Boc-4-oxopiperidine-2-carboxylate**

CAS Number: 180854-44-8

Specifications & Purity:  $\geq 95\%$

Lot #: C2508010

SKU #: **E168045**

Version: **1**

Analysis #: **173126**

Storage Temperature: Argon charged

| Parameter                                                    | Limit Values                              | Result                                    |
|--------------------------------------------------------------|-------------------------------------------|-------------------------------------------|
| Purity(NMR)                                                  | 95-100 (%)                                | 96.15 %                                   |
| Specific Rotation $[\alpha]_{20/D}(c=0.5 \text{ in CHCL}_3)$ | -15--9 (°)                                | -9.21 °                                   |
| Appearance (E168045)                                         | Colorless to Yellow to Tan Viscous Liquid | Colorless to Yellow to Tan Viscous Liquid |
| Proton NMR spectrum                                          | Conforms to Structure                     | Conforms to Structure                     |



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