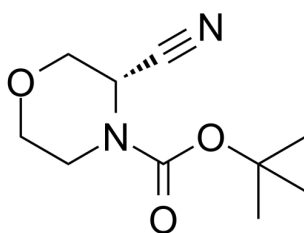


## Certificate of Analysis

### Compound Information

Product Name:	tert-Butyl (S)-3-cyanomorpholine-4-carboxylate
Cat. No.:	1174286
CAS No.:	1257856-86-2
Molecular Formula:	C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>3</sub>
Molecular Weight:	212.25
Chemical Structure:	



### Batch Information

Batch No.:	Lf0427130672
Storage:	Storage temp. 2-8°C
Mfg. Date:	2022-04-27
Retest Date:	2025-04-26
Origin:	Shanghai, China

### QC Summary

Appearance:	Light yellow to yellow (Solid)
<sup>1</sup> H NMR Spectrum:	Consistent with structure
Purity (NMR):	≥98.0%
OR[α](C=1.0 g/100ml CHCl <sub>3</sub> ):	110.2°
Conclusion:	The product has been tested and complies with the given specifications.

Caution: Research use only and are not intended for human use.

Tel: 400-821-0725

E-mail: product@leyan.com

Address: No. 1999 Zhangheng Road, Building 3, Zhangjiang High-Tech Park, Shanghai