

# Chem-Impex International, Inc.

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## Certificate of Analysis

**Catalogue Number** 17234  
**Product** **1-Boc-piperazine-2-carboxylic acid**

**Lot Number** 001723-20160827  
Piperazine-1,2-dicarboxylic acid 1-*tert*-butyl ester

**CAS Number** 1214196-85-6  
**Molecular Formula** C<sub>10</sub>H<sub>18</sub>N<sub>2</sub>O<sub>4</sub>

**Molecular Weight** 230.26

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**Appearance** White solid

**Water Content (Karl Fisher)** 0.2%

**<sup>1</sup>H NMR** Conforms to structure

**Purity by HPLC** 98.1%

**Storage** Store at 0-8 °C

**Remarks** See material safety data sheet for additional information  
For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



**Bala Kumar**  
Quality Control Manager