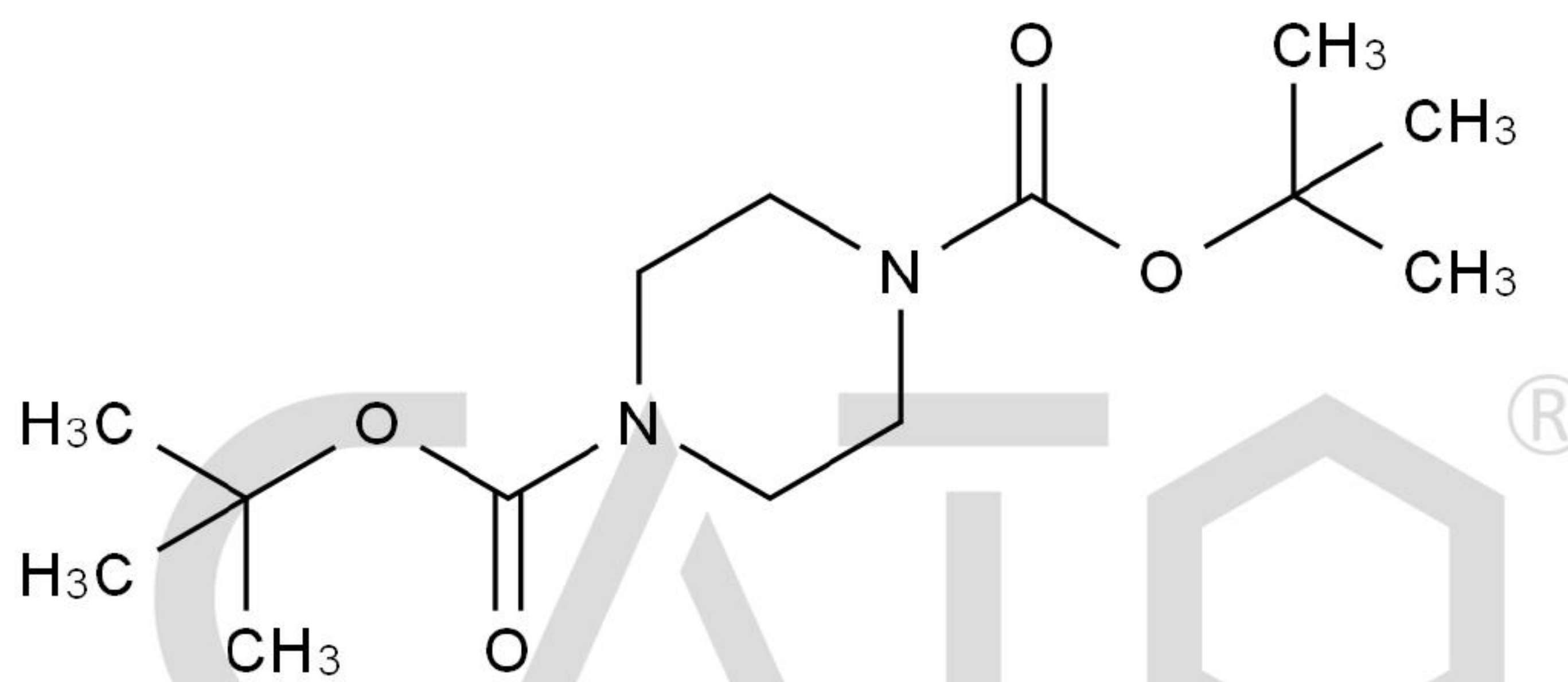


Certificate of Analysis

Reference Material & Standard

Product Name:	Di-tert-butyl piperazine-1,4-dicarboxylate	Catalogue Number:	C3D-2949
Synonyms:	N/A	Lot Number:	1117-RE-0054
CAS Number:	76535-75-6	Expiry Date:	Nov 20, 2026
Molecular Formula:	C14H26N2O4	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	286.37		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	GCMS&HNMR	Confirmed
Purity	GC	100.0%
Assay	qNMR	98.0%

Comment:

Assay was determined by quantitative ¹H-NMR.

Signature:

Prepared by:

Nice

Reviewed by:

Koi

Aporoved by General Manager:

David

Date: Nov 21, 2023

Date: Nov 21, 2023

Date: Nov 21, 2023

