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# Certificate of Analysis

**Product** 44630 - Morpholine extrapure, 99% - [110-91-8]  
**Batch No** 1597642  
**Analysis Date** 01-Jul-2024  
**Date of Manufacture** July 2024  
**Expiry Date/Re-Test Date** July 2029  
**Molecular Formula** C4H9NO  
**Molecular Weight** 87.12

Test Parameters	Standards	Actual Results
Appearance (Clarity)	Clear	Clear
Appearance (Colour)	Colourless to pale yellow	Colourless
Appearance (Form)	Liquid	Liquid
Colour (APHA)	max. 60	Passes
Assay (GC)	min. 99%	99.99%
Density (g/ml) @ 20°C	0.999-1.000	0.999
Refractive Index (20°C)	1.453-1.455	1.453
Boiling Range	125-130°C	125-130°C
Water (KF)	max. 0.3%	0.08%

FRM/82/11/2/44630 Rev No. 1 Date 01/11/2015

Prepared by Sanket

In compliance with the standard specifications of SRL

Plant Site 1 : D-88/2, MIDC, Turbhe – 400 705, New Mumbai, India

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