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## Certificate of Analysis

<b>Product</b>	<b>96740 - Morpholine extrapure AR, 99.5% - [110-91-8]</b>
<b>Batch No</b>	<b>5281605</b>
<b>Analysis Date</b>	05-Sep-2023
<b>Date of Manufacture</b>	September 2023
<b>Expiry Date/Re-Test Date</b>	September 2028
<b>Molecular Formula</b>	C <sub>4</sub> H <sub>9</sub> NO
<b>Molecular Weight</b>	87.12

Test Parameters	Standards	Actual Results
Appearance (Clarity)	Clear	Clear
Appearance (Colour)	Colourless	Colourless
Appearance (Form)	Liquid	Liquid
Assay (GC)	min. 99.5%	99.90%
Density (g/ml) @ 20°C	0.999-1.000	0.999
Refractive Index (20°C)	1.454-1.455	1.454
Boiling Range	127-129°C	127-129°C
Non Volatile Matter	max. 0.01%	0.001%
Iron (Fe)	max. 0.00005%	Passes
Heavy Metals (Pb)	max. 0.0001%	Passes
Copper (Cu)	max. 0.00001%	Passes
Water (KF)	max. 0.1%	0.1%

FRM/82/11/2/96740 Rev No. 1 Date 01/11/2015

Prepared by Ashish

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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