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# Certificate of Analysis

**Product** **43294 - 1,4-Dioxane for HPLC & UV Spectroscopy, 99.9% - [123-91-1]**  
**Batch No** **5940445**  
**Analysis Date** 29-Aug-2023  
**Date of Manufacture** August 2023  
**Expiry Date/Re-Test Date** August 2028  
**Molecular Formula** C<sub>4</sub>H<sub>8</sub>O<sub>2</sub>  
**Molecular Weight** 88.11

Test Parameters	Standards	Actual Results
Appearance (Form)	Clear	Clear
Appearance (Colour)	Colourless	Colourless
Appearance (Clarity)	Liquid	Liquid
Colour (APHA)	max. 10	Passes
Assay (GC)	min. 99.9%	99.97%
Density (g/ml) @ 20°C	1.032-1.033	1.032
Refractive Index (20°C)	1.421-1.423	1.421
Boiling Range	100-102°C	100-102°C
Freezing Point	min. 11°C	11°C
Non Volatile Matter	max. 0.0005%	0.0002%
Acidity (CH <sub>3</sub> COOH)	max. 0.001%	0.0005%
Peroxide (H <sub>2</sub> O <sub>2</sub> )	max. 0.005%	0.001%
Water (KF)	max. 0.05%	0.05%
%T (Transmission) in a 1cm cell v/s H <sub>2</sub> O		.
@220nm	≥10	24
@230nm	≥40	52
@240nm	≥50	78
@250nm	≥60	87
@260nm	≥70	89
@270nm	≥80	93
@280nm	≥90	99
@290nm	≥97	100
@300-400nm	≥99	100
(after purging with N <sub>2</sub> for 15 min.)		.

FRM/82/11/2/43294 Rev No. 2 Date 14/01/2023

Prepared by **Udit**

In compliance with the standard specifications of SRL

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

608-B, Satellite Gazebo, Andheri Ghatkopar Link Road,  
Chakala, Andheri (E), Mumbai - 400 099. India. ☎ +91-22-4268 5800

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