



## **CERTIFICATE OF ANALYSIS**

**Date: 11/09/13**

**PRODUCT NAME : 1,4,-DIOXAN GR**

**CAS No : 123-91-1**  
**Mol. Formula : C<sub>4</sub>H<sub>8</sub>O<sub>2</sub>**  
**Mol. WT : 88.11**

**Product code : 23070**  
**Batch No : MCRT-7140**  
**Mfd : Sept. 2013**

| S. R | Test                                                                       | Specification                 | Observation         |
|------|----------------------------------------------------------------------------|-------------------------------|---------------------|
| 1    | Assay (GC)                                                                 | 99.0% min                     | 99.84%              |
| 2    | Wt. per ml at 20 <sup>0</sup> C                                            | 1.032-1.034g                  | 1.034g              |
| 3    | Freezing point                                                             | Not below 11.5 <sup>0</sup> C | 11.6 <sup>0</sup> C |
| 4    | Refractive index n <sup>20</sup> <sub>D</sub>                              | 1.421-1.423                   | 1.422               |
| 5    | Water                                                                      | 0.05% max                     | 0.019%              |
| 6    | Acidity (CH <sub>3</sub> COOH)                                             | 0.02% max                     | < 0.02%             |
| 7    | Non-volatile matter                                                        | 0.01% max                     | 0.003%              |
| 8    | Acetal [CH <sub>3</sub> CH(OC <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> ] | 0.8% max                      | < 0.8%              |
| 9    | Copper (Cu)                                                                | 0.0001% max                   | < 0.0001%           |
| 10   | Iron (Fe)                                                                  | 0.0001% max                   | < 0.0001%           |
| 11   | Lead (Pb)                                                                  | 0.0001% max                   | < 0.0001%           |
| 12   | Peroxide (as H <sub>2</sub> O <sub>2</sub> )                               | 0.005% max                    | < 0.005%            |

**REMARK:** THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

**[Tested By]**

**[QC Incharge]**

**HEAD-QUALITY ASSUARANCE**  
**(G.G.Salian)**

**Note:** Computer generated image requires no sign.

**MOLYCHEM Office: 78/80 Babu Genu Road, Souri Bldg., 2<sup>nd</sup> Floor, Mumbai – 400 002 (INDIA)**  
**Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442. Email : [info@molychem.net](mailto:info@molychem.net)**  
**Works: Plot No./9, Badlapur M.I.D.C.,OPP.Shobhavat Textile Co.,**  
**Kulgaon, Badlapur (E), Dist.-Thane-421 503**