

## Certificate of Analysis

Date of Testing: 2022-02-21 15:41:43  
Date of Next Testing: 2025-02-20 15:41:43  
Product Name: **N,N-Diethylcarbamyl chloride**  
CAS Number: 88-10-8  
Specifications & Purity: 98%  
Lot #: D1901017  
SKU #: **D108033**  
**Analysis:** **076201**  
Storage Temperature: Argon charged

| Parameter                               | Limit Values               | Result                     |
|-----------------------------------------|----------------------------|----------------------------|
| Refractive index n <sub>20</sub> /D     | 1.448-1.452                | 1.45                       |
| Purity(Titration by AgNO <sub>3</sub> ) | 97.5-102.5 (%)             | 98.91 %                    |
| Purity(GC)                              | 98-100 (%)                 | 99.61 %                    |
| Density (20°C)                          | 1.071-1.075                | 1.07                       |
| Appearance (D108033)                    | Colorless to Orange Liquid | Colorless to Orange Liquid |
| Infrared spectrum                       | Conforms to Structure      | Conforms to Structure      |



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