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### CERTIFICATE OF ANALYSIS

|           |                                                               |
|-----------|---------------------------------------------------------------|
| Catalog # | 001858                                                        |
| Name      | Ethyl 11H-perfluoroundecanoate                                |
| LOT       | T28V                                                          |
| CAS       | 1649-56-5                                                     |
| Formula   | C <sub>13</sub> H <sub>6</sub> F <sub>20</sub> O <sub>2</sub> |
| B.P.      | 118°/9mm                                                      |
| Density   | 1.68                                                          |
| Purity    | 95%                                                           |

Quality Assurance  
September 28, 2021