

Certificate of Analysis

Date of Testing: 2023-04-24 15:30:37
 Date of Next Testing: 2027-04-23 15:30:37
 Product Name: **Heptane**
 CAS Number: 142-82-5
 Specifications & Purity: for HPLC, $\geq 99\%$ (GC)
 Lot #: D2314818
 SKU #: **H108112**
Analysis: **205865**
 Storage Temperature: Argon charged

| Parameter | Limit Values | Result |
|-------------------------------------|-----------------------|-----------------------|
| Refractive index n ₂₀ /D | 1.385-1.389 | 1.39 |
| Fluorescence (quinine) at 365 nm | 0-1 (ppb) | 0.00 ppb |
| UV Absorbance 260nm | 0-0.01 | 0.01 |
| UV Absorbance 200nm | 0-0.7 | 0.47 |
| UV Absorbance 230nm | 0-0.05 | 0.03 |
| UV Absorbance 220nm | 0-0.1 | 0.03 |
| Purity(GC) | 99-100 (%) | 99.83 % |
| Residue on Evaporation | 0-0.0003 (%) | 0.00 % |
| UV Absorbance 210nm | 0-0.4 | 0.06 |
| Fluorescence (quinine) at 254 nm | 0-1 (ppb) | 0.17 ppb |
| free acid (as CH ₃ COOH) | 0-0.001 (%) | 0.00 % |
| UV Absorbance 400nm | 0-0.01 | 0.00 |
| Water by Karl Fischer | 0-0.01 (%) | 0.00 % |
| UV Absorbance 245nm | 0-0.01 | 0.01 |
| Appearance (H108112) | Colorless liquid | Colorless liquid |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |



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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager