

## Certificate of Analysis

Date of Testing: 2022-07-23 22:19:23  
 Date of Next Testing: 2026-07-22 22:19:23  
 Product Name: **Heptane**  
 CAS Number: 142-82-5  
 Specifications & Purity: for HPLC,  $\geq 99\%$ (GC)  
 Lot #: G2221150  
 SKU #: **H108112**  
**Analysis:** **107968**  
 Storage Temperature: Argon charged

Parameter	Limit Values	Result
Refractive index n <sub>20</sub> /D	1.385-1.389	1.39
UV Absorbance 260nm	0-0.01	0.01
UV Absorbance 220nm	0-0.1	0.08
Purity(GC)	99-100 (%)	99.86 %
Residue on Evaporation	0-0.0003 (%)	0.00 %
UV Absorbance 210nm	0-0.4	0.24
free acid (as CH <sub>3</sub> COOH)	0-0.001 (%)	0.00 %
Water by Karl Fischer	0-0.01 (%)	0.01 %
UV Absorbance 245nm	0-0.01	0.01
Fluorescence (quinine) at 365 nm	0-1 (ppb)	0.00 ppb
UV Absorbance 200nm	0-0.7	0.54
UV Absorbance 230nm	0-0.05	0.05
Fluorescence (quinine) at 254 nm	0-1 (ppb)	0.18 ppb
UV Absorbance 400nm	0-0.01	0.00
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