

Certificate of Analysis

Product: Chloroform
Grade: HPLC
Part No.'s: 1271

| | |
|-------------------|--------------------------------|
| Lot: | M3M103 |
| Mfg. Date: | 2022-03-22 |
| Exp. Date: | 3 years after Mfg. Date |

Manufactured by Duksan Pure Chemicals
Meets ACS Specification

Ultraviolet Spectrophotometry Maximum UV Absorbance:

| Wavelength | Unit | Specification (Max) | Results |
|------------|------|---------------------|---------|
| 245 | nm | 1.00 | 0.80 |
| 250 | nm | 0.33 | 0.30 |
| 254 | nm | 0.15 | 0.14 |
| 270 | nm | 0.02 | 0.01 |
| 280 | nm | 0.01 | 0.001 |
| UV Cutoff | nm | 245 | <245 |

| Test | Unit | Specification | Results |
|--|------|---------------|---------|
| Assay (by GC) | % | Min. 99.8 | 99.9 |
| Color (APHA) | - | Max. 10 | 3 |
| Water | % | Max. 0.02 | 0.001 |
| Residue After Evaporation | ppm | Max. 2 | <1 |
| Lead (Pb) | ppm | Max. 0.05 | <0.05 |
| Acid and Chloride | - | To pass test | Pass |
| Free Chlorine | - | To pass test | Pass |
| Suitability for use in Dithizone test | - | To pass test | Pass |
| Acetone or Aldehyde | % | Max. 0.005 | <0.005 |
| Contains Stabilizer (Ethanol) 0.5~1.0% | - | - | - |

Created by:
Fernando Fana
 Quality Associate