



Certificate of Analysis

PFTBA Sample Kit

Agilent Part Number: 05971-60571 **Sample Lot Number:** K108875

Storage Condition: Room Temperature

Concentration:

GCMS Grade Neat Material: Perfluorotributylamine CAS # 311-89-7 (CF₃(CF₂)₃N)

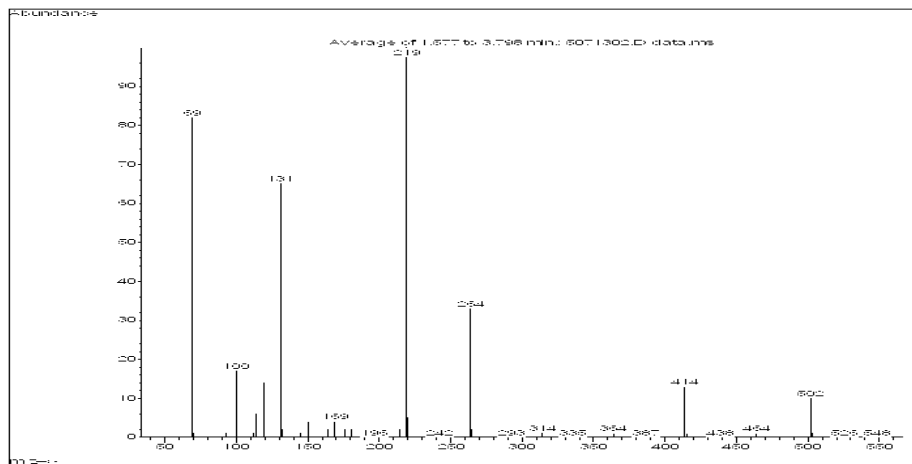
Identification:

Capillary GC/MS was used to determine the purity grade of perfluorotributylamine 99.8% Suitable as MS calibration agent

Traceability:

This standard has been produced gravimetrically using ISO9001 quality procedures. Balances used are calibrated regularly and meet the requirements of ISO. High-resolution gas chromatography mass spectroscopy was used to verify the standard identity.

Analytical Spectrum or Chromatogram: Fragmentation Pattern



Conditions:

Column: 5% phenylmethylsilicone, 30 m x 0.25 mm x 0.25 μm

Oven: 40°C for 4 min, 35 °C /min to 120 °C, hold 4 min

Carrier: helium, 1.2 mL/min

Injection: 25 μL splitless injection of 2 hour room temperature headspace. Inlet at 200 °C

Det.: MS operated in electron-impact ionization mode at 70-eV scanning from 50 to 550 m/z

Date of Manufacture: 16 JULY 2014

Date of Expiration: 16 JULY 2016

Duane Funk
Sigma Aldrich Quality Manager