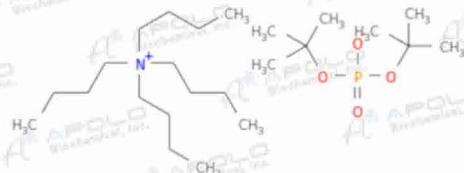


CERTIFICATE OF ANALYSIS

Product Name: Tetrabutylammonium di-tert-butyl

Chemical Structure:



Lot Number: AZF215332411

CAT Number: APL-CCPD-0068695

CAS Registry Number: 68695-48-7

Manufacture Date: 12/2021

Expiry Date: 12/2023

Molecular Formula: C₂₄H₅₄NO₄P

Molecular Weight: 451.6600

Storage: RT

Analysis Data

Item	Specification	Results
Appearance	off-white solid powder	Conforms
HNMR	Consistent with the structure	Conforms
Purity	≥ 98 %	98 %

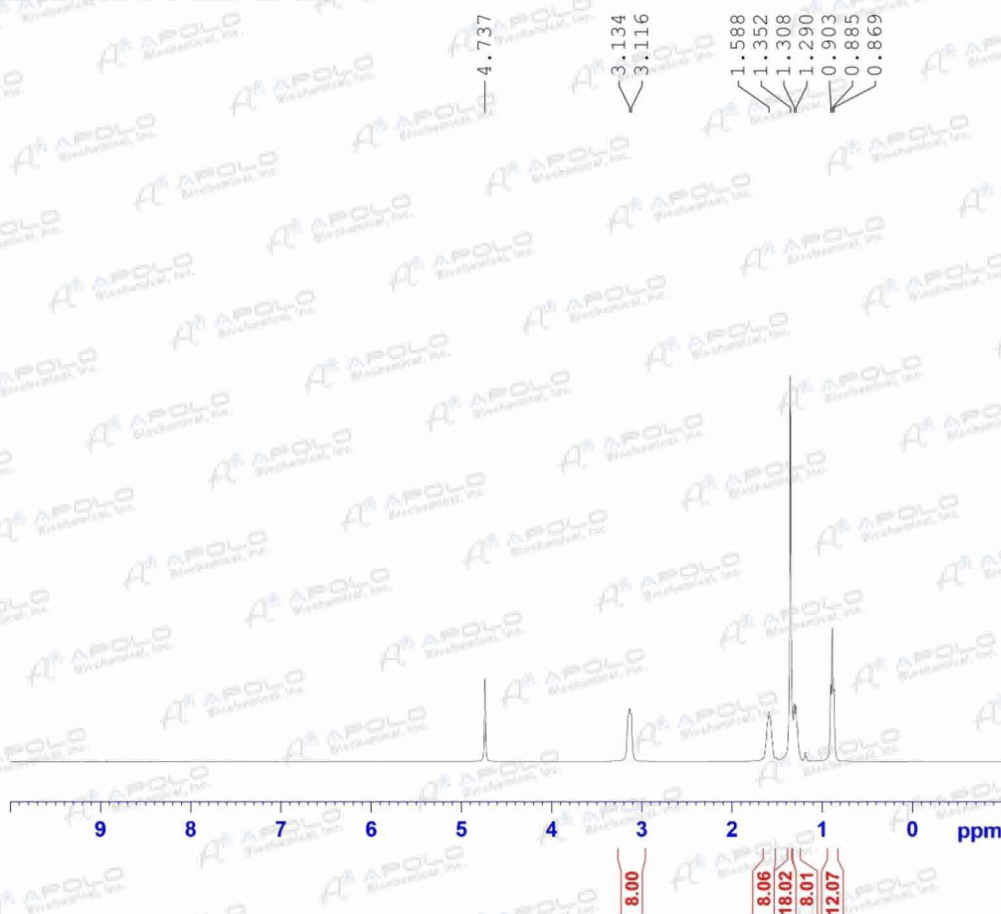
The foregoing is a copy of the Certificate of Analysis as provided by our supplier

Jennifer LaBrecque

Jennifer LaBrecque 01/2022
Quality Assurance Manager

Conclusion: The above product meets the specifications of APOLO

AZF21-533241-1 HNMR in D2O



Current Data Parameters
NAME AZF21-533241-1
EXPNO 15
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211221
Time_ 11.57
INSTRUM WNMRI-400MHz
PULPROG zgpg30
TD 36860
SOLVENT D2O
NS 32
DS 0
SWH 9715.024 Hz
AQ 1.9999950 sec
RG 49.2
DW 51.467 usec
DE 30.00 usec
TE 293.1 K
NUC1 1H
PL1 120.00 dB
SFO1 399.8316015 MHz

F2 - Processing parameters
SI 131072
SF 399.8267363 MHz
WDW EM
SSB 0
LB 0.50 Hz
GB 0.1
PC 1.00