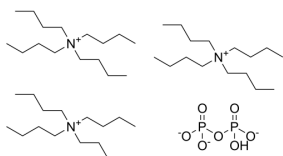


Certificate of Analysis

Product Name: Tris(tetrabutylammonium) hydrogen pyrophosphate
Cat. No.: CS-0040894
CAS No.: 76947-02-9
Batch No.: Lf0611139233
Chemical Name: 1-Butanaminium, N,N,N-tributyl-, (diphosphate) (3:1)

PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: $C_{48}H_{109}N_3O_7P_2$
Molecular Weight: 902.34
Storage: Store at room temperature, keep dry and cool
Chemical Structure:



ANALYTICAL DATA

Appearance: White to off-white (Solid)
 1H NMR Spectrum: Consistent with structure
Purity (NMR): $\geq 95.0\%$
Conclusion: The product has been tested and complies with the given specifications.

Caution: Product has not been fully validated for medical applications. For research use only.

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