



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-253269
Lot Number: SAMPLE
Product Name: Phosphazene base P1-t-Bu-tris(tetramethylene)
CAS Number: 161118-67-8
Molecular Formula: $C_{16}H_{33}N_4P$
Molecular Weight: 312.43

Test	Specification	Result
Appearance (Color)	Colorless to very light yellow and colorless to very light brown-yellow	Very light brown-yellow
Appearance (Form)	Liquid	Complies
Identification (1H -NMR)	Consistent with structure	Complies
Identification (^{31}P -NMR)	Consistent with structure	Complies
Purity (Titration)	$\geq 97.0\%$ (0.1M $HClO_4$)	99.6%
Specific Gravity	1.02 - 1.02	1.02
Refractive Index (n _{20/D})	1.508 - 1.510	1.509

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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