



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-238950
Lot Number: SAMPLE
Product Name: 4-Phosphonooxy-TEMPO hydrate, free radical
CAS Number: 22690-04-6
Molecular Formula: $C_9H_{19}NO_5P \cdot xH_2O$
Molecular Weight: 252.22 (anhydrous basis)

Test	Specification	Result
Appearance	Off-white to tan or orange-tan powder	Tan powder
Identification (Infrared Spectrum)	Consistent with structure	Complies
Purity (Titration)		15.04% (with Karl Fischer titration)
TLC	Consistent with control	Consistent with listing
Melting Point		275 °C (dec.)
Solubility	1% in 1N NH_4OH ; Clear colorless to yellow solution	1% in 1N NH_4OH ; Clear pale yellow solution
Carbon Content	38.5 - 41.5% (typically)	43.3% (dry basis)
Nitrogen Content	4.9 - 5.5% (typically)	5.5% (dry basis)

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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