



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-213963
Lot Number: SAMPLE
Product Name: 2,3-Diphospho-D-glyceric acid penta(cyclohexylammonium) salt
CAS Number: 62868-79-5
Molecular Formula: $C_3H_8O_{10}P_2 \cdot 5C_6H_{13}N$
Molecular Weight: 761.91

Test	Specification	Result
Appearance (Color)	White to Off-White	White
Appearance (Form)	Powder	Powder
Identification (1H -NMR)	Complies with structure	Complies
Identification (^{13}C -NMR)	Complies with structure	Complies
Identification (^{31}P -NMR)	Complies with structure	Complies
Purity (TLC)	97.0%	99.0%
Solubility	50 mg/mL water	50 mg/mL water
Solution (Color)	Colorless to Very Faint Yellow	Colorless
Solution (Turbidity)	Clear	Clear
1,3-Diphosphoglyceric Acid	≤ 0.050 mol %	0.050 mol %
3-Phosphoglyceric Acid	≤ 0.10 mol %	0.01 mol %
Carbon	46.20 - 53.14 %	48.90 %
Carbon	49.7 - 54.3 % (anhydrous)	52.0 % (anhydrous)
Nitrogen	8.10 - 9.44 %	8.64 %
Nitrogen	8.7 - 9.7 % (anhydrous)	9.2 % (anhydrous)
Water Content (KF)	≤ 7.0 %	5.9 %

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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