



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-213325  
Lot Number: SAMPLE  
Product Name: 1-Deoxy-1-morpholino-D-fructose  
CAS Number: 6291-16-3  
Molecular Formula:  $C_{10}H_{19}NO_6$   
Molecular Weight: 249.26

Test	Specification	Result
Appearance	White to off-white powder	White powder
Identification ( $^1H$ -NMR)	Consistent with structure	Complies
Purity (TLC)	$\geq 98.0\%$	99.5%
Residual Solvents	Methanol $\leq 1.00\%$	0.09%
Solution (Color)	Colorless to faint yellow at 19.60 - 20.40 mg/ml in heating methanol	Colorless at 20.00 mg/ml in heating methanol
Solution (Turbidity)	Clear at 19.60 - 20.40 mg/ml in heating methanol	Clear at 20.00 mg/ml in heating methanol
Carbon Content	47.68 - 48.68% (anhydrous)	48.38%
Nitrogen Content	5.12 - 6.12% (anhydrous)	5.49%
Water Content (KF)	$\geq 0.00\%$	0.41%

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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