



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-220970
Lot Number: SAMPLE
Product Name: 4-Nitrophenyl β-D-lactopyranoside
CAS Number: 4419-94-7
Molecular Formula: $C_{18}H_{25}NO_{13}$
Molecular Weight: 463.39

Test	Specification	Result
Appearance (Color)	White to off-white	Off-white
Appearance (Form)	Powder at 0.5%	Complies
Purity (HPLC)	≥ 99.0%	99.1%
Decomposition Point	247 - 251 °C	249 °C
Solution (Turbidity)	Clear (max. 7.0 NTU) at 0.5% in water	Clear at 0.5% in water
Color of Solution	Colorless at 0.5% in water	Complies
FTIR	Consistent with reference	Complies
Specific Rotation (α _{20/D})	- 76.0 - -72.0°	- 72.3°
Impurity	≤ 0.10%	< 0.01%
Water Content (KF)	≤ 9.0%	0.8%

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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