

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaldrich.com

Email USA: techserv@sial.com

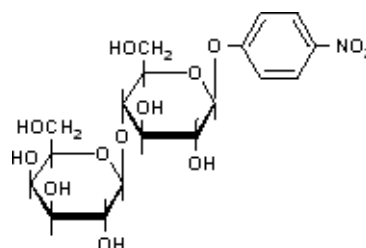
Outside USA: eurtechserv@sial.com

## Product Specification

Product Name:  
4-Nitrophenyl β-D-lactopyranoside - powder

Product Number: **N1752**  
CAS Number: 4419-94-7

Formula: C<sub>18</sub>H<sub>25</sub>NO<sub>13</sub>  
Formula Weight: 463.39 g/mol



### TEST

### Specification

Appearance (Form)	Powder
Appearance (Colour)	White to White w/ Yellow Cast
Solubility (Solvent)	Water
Solubility (Conc)	19.60 - 20.40 mg/ml
Solubility (Heating)	Yes
Solubility (Turbidity)	Clear to Slightly Hazy
Solubility (Color)	Colorless to Yellow
Elemental Anal. (%C anhydrous)	46.30 - 47.20 %
Elemental Anal. (%N anhydrous)	2.80 - 3.30 %
NMR (Solvent)	DMSO-d <sub>6</sub>
Identity by NMR	Consistent
NMR (Residual Solvent 1)	Dimethylformamide
NMR (% Solvent 1)	≤ 1.00 %
NMR (Residual Solvent 2)	Ethanol
NMR (% Solvent 2)	≤ 1.00 %
Purity (TLC)	≥ 99.00 %
Specific Rotation (Solvent)	Water
Specific Rotation (Conc)	4.50 - 5.50 mg/ml
Specific Rotation (Alpha D)	-72.00 - -65.00 deg
Recommended Retest Period	-----
4 Years	

Specification: PRE.1.ZQ5.1000000812.000

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.