

## Certificate of Analysis

Date of Testing: 2023-01-30 09:45:42  
Date of Next Testing: 2027-01-29 09:45:42  
Product Name: **PIPES disodium salt**  
CAS Number: 76836-02-7  
Specifications & Purity: 98%  
Lot #: A2312228  
SKU #: **P113025**  
**Analysis:** **172780**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Heavy metal (as Pb)	0-5 (ppm)	0.00 ppm
UV Absorbance 290nm(33%,H2O)	0-0.1	0.06
Water by Karl Fischer	0-8 (%)	0.59 %
Purity(Nonaqueous Titration)(As drybase)	98-100 (%)	98.33 %
Appearance (P113025)	white crystalline powder	white crystalline powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility,Colorless,Clear,25 g plus 50 ml H2O	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager