



Mayura Analytical LLP

Specialists in Analytical Instrumentation

Formerly, MAYURA ANALYTICAL PRIVATE LIMITED (Registration No. U85110KA1991PTC011863) converted into LLP w.e.f. 11th January 2016 vide LLPIN: AAF-4682

Auto Titrator HP 77

*Mayura Analytical LLP is a leading organisation in analytical instrumentation that provides solutions to research institutions and industries to diagnose and resolve their analytical needs. Our pioneering products are made in India for the Indian market and beyond since our inception in 1984. We are widely acknowledged for our approach to chemical analysis and to customer troubleshooting. As recognised suppliers of analytical equipment to the **Indian Institute of Science (IISc), Bangalore and Indian Institute of Technology (All India)**, preeminent research and technology institutions of India as well as large industries such as **BIOCON**, we have cemented our standing in the market with our cutting edge expertise and solution focussed approach.*

Applications of Mayura Analytical Auto Titrator HP 77

HP 77 is a highly competitive equipment matching all international specifications. It is a complete titration equipment for potentiometric titration for both aqueous solutions with acid base and non-aqueous solutions such as Perchloric acid and Tetrabutyl Ammonium Hydroxide.

Potentiometric titration is most required in any chemical analysis. This type of analysis weighs in highly in pharmaceutical research and industry and is very economical and accurate. Other applications of this type of analysis are multitude but to draw a few examples, here is a list of industrial and research applications of the *Mayura Analytical Auto Titrator HP 77*.

- Antibiotics such as Norfolxacin, Ciprofoxycin, Ampycillin and Amoxcyllin
- Redox titration
- Argentometric titration for Chloride, Bromide, Iodide and Cyanide
- Moisture estimation by Karl Fisher titration (PPM to %)





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- Complexometric titration such as EDTA titration for metal ion estimation
- Lubricant and Transformer Oil analysis – TAN and TBN (ASTM procedure) and moisture
- Silver assay for hallmarking
- Gold assay for hallmarking (coming soon)

Features

In order to support these applications, the *HP 77* comes with a range of features to make analysis simpler and accurate.

- The software is 21 CFR part 11 compliant as per Pharma requirement
- Hardware validation with computer printouts
- Software validation with computer printouts
- Administrator login password
- User passwords to hold data integrity
- Audit trail to follow any data correction
- Graphic potentiogram printout
- First derivative of Potentiograms for easy observation
- Report printout with average of up to 5 trials
- Future addition of statistical interpretation
- Burette calibration and correction of dosed volume (a unique feature)

Specifications

- Volume dosing: 0.001 to 999.999ml
- Volume resolution: 0.001ml to 1 μ l
- Auto Fill and Dose during titration process
- Moisture measurements from low PPM to 100%