

The requirements of Chemicals, apparatus and instruments for conducting the practicals of MCHL-003 course of PGDAC programme

Chemicals	Apparatus
Absolute Ethanol	Beakers (100 cm ³)
Acetic acid	Burettes
Ammonia	Conical flasks (100 cm ³)
Ammonium nickel (II) sulphate	Graduated pipette (5 cm ³)
Barium Chloride	Graduated pipette, 10 cm ³
Bromine water (saturated)	Matched cuvette
Dimethylglyoxime	Pipettes (5, 10 cm ³)
2,4-dinitrophenylhydrazine	Sieves (20 and 39 mesh)
Ferrous ammonium sulphate hexahydrate	Stoppered test tubes (20 cm ³)
Glycerol	Volumetric flasks (100 cm ³ , 250 cm ³ and 1 dm ³)
Hydrochloric acid	Weighing bottle
Hydroxylamine hydrochloride	Instruments (Essential)
Methanol (Spectroscopic grade)	Spectrophotometer/ Filter photometer
Methyl ethyl ketone	pH meter with glass electrode
Methyl red indicator	
1, 10-Phenanthroline	Instruments (Optional)
Potassium dichromate	IR spectrometer
Potassium hydroxide	NMR spectrometer
Potassium permanganate	Flame photometer
Potassium sulphate	
Sodium acetate	
Sodium Chloride	
Sulphuric acid	