



Institute of Physics

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List of Chemicals for NISER Laboratory

1. Acids (all AR/GR reagent)

Nitric Acid, Sulfuric Acid, Hydrochloric Acid, Phosphoric Acid, Perchlorine Acid, Succinic Acid, Oxalic Acid, Acetic Acid (Glacial), Formic Acid, Benzoic Acid

2. Alkali (all AR/GR reagent)

Sodium Hydroxide, Potassium Hydroxide, Liquor Ammonia (Reagent), Barium Hydroxide

3. Salts

Sodium Carbonate, Sodium Bicarbonate, Sodium Chloride, Sodium Bromide, Sodium acetate, Sodium iodide, Sodium nitrate, Sodium Sulfate, Sodium oxalate, Sodium metabi sulfite, Sodium Sulfite, Sodium Thiosulfate, Disodium hydrogen Phosphate, Sodium dihydrogen Phosphate, Sodium tetroxalate, Sodium Ferrocyanide, Sodium tetraborate, Sodium Chromate (all AR/GR).

Potassium Nitrate, Potassium Sulfate, Potassium Hydrogen Phthalate, Potassium Oxalate, Potassium Permanganate, Potassium Dichromate, Potassium Chloride, Potassium Bromide, Potassium Iodide.

Silver Nitrate, Ferrous ammonium sulfate (AR/GR), Ferric ammonium Sulfate or ferric Alum (AR/GR/Reagent), Aluminium Sulfate, Aluminium Chloride, Aluminium Nitrate, Chromium Nitrate, Chromium Sulfate, Chromium Chloride Zinc Carbonate, Zinc chloride, Zinc Nitrate, (AR/GR)

Zinc Metal, Zinc Sulfate (AR/GR), Zinc Acetate (AR/GR),
Manganese (II) Sulfate,
Manganese (II) Chloride,
Manganese (II) Acetate
Manganese (III) Acetate,
Cobalt (II) - Chloride, Sulfate, Nitrate, acetate, Carbonate
Nickel (II) - Chloride, Sulfate, Nitrate, acetate, Carbonate
Copper (II)- Chloride, Sulfate, Nitrate, acetate, Carbonate,

Silica gel

4. Indicators

Phenolphthalein, Methyl Orange Methyl Red, Bromocresol Green, Congo Red, N - Phenyl Anthranilic Acid, Diphenyl amine Sulfonate Sodium Salt, Diphenyl amine, Murexide, Eriochrome blackT, Diiodofluorescence

5. Oxidants

Ceric Sulfate, Ceric Ammonium Nitrate, Potassium Bromate, Potassium iodate

6. Complexing agents used in Titration

Ethylene diamine tetra acetic Acid disodium Salt, Orthrophenanthroline, Dipyridyl, 8-Hydroxy Quinoline, Dimethyl Glyoxime, Salicylic Acid, 5-Sulfo Salicylic Acid, Ethylene diamine, (1,3) Diamino Propane, Diethylene Triamine, Triethylene Tetramine, (1,1,1) Triamino Triethylamine, Methyl Salicylate, Picolinic Acid

Lead - Chloride, Bromide, Sulfate, Nitrate

Hg- Mercuric Chloride, Nitrate, Sulfate, Mercurous Chloride, Mercurous Nitrate, Mercuric Oxide (Red and Yellow)

Ca- Calcium Carbonate, anhydrous calcium chloride, calcium nitrate, calcium sulfate

Mg- Magnesium Chloride, Magnesium Nitrate, Magnesium Sulfate

As- Sodium Arsenite, Sodium Arsenate

P- Sodium Pyrophosphate

Sb- Antimony nitrate, Chloride, Sulfate

Sn- Stannous Chloride, Stannic Chloride, Tin Granules

Cd- cadmium nitrate, Sulfate Chloride

Fe- Iron Pyrites, ferric nitrate, ferrous sulfate, ferric chloride, ferrous chloride, ferric oxide

7. Solvents of Organic Reagents

Methanol, Ethanol, A- Absolute Ethanol, B- Rectified Spirit, Isopropanol, Tert Butanol, Acetonitrile, Dimethyl Sulfoxide, Dimethyl Formamide, Tetra Hydro Furan, Pyridine, Benzene, Toluene, Ethanolamine, Dichthanolamine, Triethanolamine, Aniline, Xylene, Acetone, Cyclohexanol, Cyclohexanone, Oxalic Acid, p-Chloro Benzal Dehyde, Benzaldehyde, Acetophenone, Acetal Dehyde, Benzophenone, Chloroacetic Acid, Propionic Acid, Nitro Benzene, 2,4 dinitro Benzene, Phenyl Hydrazene, 2,4 dinitro phenyl hydrazene, Sugars - dextrose, Phenol, Quinone, Quinhydrone, Resorcinol, Catechol, Tiron, Agar Agar

Acetone, Chloroform, Benzene, Ethyl Acetate, n-Hexane b. p. 60-80, n-Hexane b.p. 50-60°C, THF, Methanol, Acetic Acid, DMF, Diethyl ether

8. Organic Compounds

O - Nitro Aniline, P. Nitro Aniline, Anthranilic Acid, Sulfanic Acid, Sucrose, Acetyl Salicylic Acid (Aspirin), Methyl Acetate, Aniline

Appertus

TLC Setup (With Applicator) - 3 Sets

9. Reagents as Buffers

Tris (Tris hydroxy methyl amino methane), MES (Morpholine methane sulfonic Acid), Potassium tetroxalate

10. Glass electrode for PH Meter

CL 51 glass electrode PH+0.01 Accuracy) (PH 0-14)

11. Distillation Setup (for solvent distillation)

All glass quick fit by B14/B24 joints R.B. Flasks 100ml, 45 ml, 500 ml (B24) B24/B14

13. Chemicals for Biology Laboratory

Tris - 7 – 9, Trizma Base, Hepes, K_2HPO_4 , KH_2PO_4 , Na_2HPO_4 , NaH_2PO_4 , NaOH, HCl, H_2SO_4 , Sodium Acetate, Acetic Acid, Sodium Citrate, Citric Acid, Ethanol, Methanol, Phenol, Formalin, Formaldehyde, Acetone, Ammonium Sulfate, Sodium Sulfate, Agar, Agarose, Acrylamide, Bisacrylamide, Temed, B. mercapto ethanol, Ammonium Psulfate, Bromophenol Blue, Ethidium Bromide, Coomassie Brilliant Blue, SDS (Sodium Dodecyl Sulfate)

All Reagents and Chemicals are AR/GR grade in absence of AR/GR quality chemicals of highest purity may be quoted.