

National Field Quality Assurance Project Administrative Functions

Recipes for PH

Recipe for pH Sample Type and Sample Code 11 with pH value 4.8 is:

Weigh out 1658.4 grams of Potassium Hydrogen Phthalate (HO CO C6 H4 COOK) KH C8 H4 O4 and 107.2 grams of Sodium Hydroxide (NaOH) into a volume of 108 Liters.

**The number of 250 mL bottles for this sample: 93
The number of 500 mL bottles for this sample: 0
The number of 1 L bottles for this sample: 56**

Recipe for pH Sample Type and Sample Code 12 with pH value 4.4 is:

Weigh out 1840.2 grams of Potassium Hydrogen Phthalate (HO CO C6 H4 COOK) KH C8 H4 O4 and 47.6 grams of Sodium Hydroxide (NaOH) into a volume of 102 Liters.

**The number of 250 mL bottles for this sample: 88
The number of 500 mL bottles for this sample: 0
The number of 1 L bottles for this sample: 51**

Recipe for pH Sample Type and Sample Code 13 with pH value 7.3 is:

Weigh out 844.7 grams of Potassium Phosphate Monobasic (KH2 PO4) and 183.7 grams of Sodium Hydroxide (NaOH) into a volume of 108 Liters.

**The number of 250 mL bottles for this sample: 86
The number of 500 mL bottles for this sample: 0
The number of 1 L bottles for this sample: 57**

Recipe for pH Sample Type and Sample Code 14 with pH value 5.9 is:

Weigh out 4446.4 grams of Potassium Hydrogen Phthalate (HO CO C6 H4 COOK) KH C8 H4 O4 and 761.1 grams of Sodium Hydroxide (NaOH) into a volume of 408 Liters.

**The number of 250 mL bottles for this sample: 399
The number of 500 mL bottles for this sample: 0
The number of 1 L bottles for this sample: 258**

Recipe for pH Sample Type and Sample Code 15 with pH value 5.7 is:

Weigh out 4677.5 grams of Potassium Hydrogen Phthalate (HO CO C6 H4 COOK) KH C8 H4 O4 and 743.9 grams of Sodium Hydroxide (NaOH) into a volume of 415 Liters.

**The number of 250 mL bottles for this sample: 368
The number of 500 mL bottles for this sample: 0
The number of 1 L bottles for this sample: 274**

Recipe for pH Sample Type and Sample Code 16 with pH value 7.9 is:

Weigh out 2853.5 grams of Potassium Phosphate Monobasic (KH2 PO4) and 773.3 grams of Sodium Hydroxide (NaOH) into a volume of 403 Liters.

**The number of 250 mL bottles for this sample: 377
The number of 500 mL bottles for this sample: 0
The number of 1 L bottles for this sample: 259**

Recipe for pH Sample Type and Sample Code 17 with pH value 7 is:

Weigh out 3690.4 grams of Potassium Phosphate Monobasic (KH2 PO4) and 631.3 grams of Sodium Hydroxide (NaOH) into a volume of 429 Liters.

**The number of 250 mL bottles for this sample: 364
The number of 500 mL bottles for this sample: 0
The number of 1 L bottles for this sample: 289**

Recipe for pH Sample Type and Sample Code 18 with pH value 7.6 is:

Weigh out 3306.9 grams of Potassium Phosphate Monobasic (KH₂PO₄) and 832 grams of Sodium Hydroxide (NaOH) into a volume of 451 Liters.

The number of 250 mL bottles for this sample: 345

The number of 500 mL bottles for this sample: 0

The number of 1 L bottles for this sample: 315

Turn on the stirrers before adding the salts. Add distilled water to the beaker to make a slurry and pour it into the tank. Rinse the beaker well.

The number of 250 mL bottles used is 2120

The number of 500 mL bottles used is 0

The number of 1 L bottles used is 1559

Chemical Totals:

Sodium Carbonate: 0 Grams

Thymol: 0 Grams

Potassium Chloride: 0 Grams

Potassium Hydrogen Phthalate: 12622.5 Grams

Sodium Hydroxide: 4080.1 Grams