

## EC Calibration Solutions

### Quality Solutions for Laboratory Applications

- **Guaranteed quality**
  - Each label shows the production batch number, expiration date and conductivity/temperature correlation table.
- **Certified solutions available**
- **FDA compliant bottles**
  - Opaque, light-tight bottles that meet FDA standards (HI80XX)

### 84 $\mu\text{S}/\text{cm}$ Calibration Solution

This 84  $\mu\text{S}/\text{cm}$  conductivity solution makes it possible to calibrate instruments with a conductivity scale of up to 200  $\mu\text{S}/\text{cm}$ , in the measurement of pure or distilled water.

Using our single-dose 20 mL solution sachets guarantees freshness for every calibration.

### 1413 $\mu\text{S}/\text{cm}$ Calibration Solution

The 1413  $\mu\text{S}/\text{cm}$  calibration solution is best suited for general use. This solution is also available in combined sachet kits with Hanna pH 7 buffer for easy calibration of multiparameter instruments.

This solution is also available in different sized bottles and in single dose, ready to use sachets.

The HI8031L solution is provided in an opaque bottle according to FDA (Food & Drug Administration) regulations, which prevents the reagent from damage due to extended exposure to light.

Our wide range of calibration solutions also includes solutions provided with a certificate of analysis to satisfy the requirements of any application from the farm to the factory.



### 84 $\mu\text{S}/\text{cm}$ Bottles

Code	EC Value @25°C	Size	Package	FDA Bottle	Certificate of Analysis
HI6033	84 $\mu\text{S}/\text{cm}$	500 mL	1 bottle		•
HI7033L	84 $\mu\text{S}/\text{cm}$	500 mL	1 bottle		
HI7033M	84 $\mu\text{S}/\text{cm}$	230 mL	1 bottle		
HI8033L	84 $\mu\text{S}/\text{cm}$	500 mL	1 bottle	•	•

### 1413 $\mu\text{S}/\text{cm}$ Bottles

Code	EC Value @25°C	Size	Package	FDA Bottle	Certificate of Analysis
HI6031	1413 $\mu\text{S}/\text{cm}$	500 mL	1 bottle		•
HI7031/1G	1413 $\mu\text{S}/\text{cm}$	1 G (3.78 L)	1 bottle		
HI7031L	1413 $\mu\text{S}/\text{cm}$	500 mL	1 bottle		
HI7031L/C	1413 $\mu\text{S}/\text{cm}$	500 mL	1 bottle		•
HI7031M	1413 $\mu\text{S}/\text{cm}$	230 mL	1 bottle		
HI8031L	1413 $\mu\text{S}/\text{cm}$	500 mL	1 bottle	•	•

### 1413 $\mu\text{S}/\text{cm}$ Sachets

Code	EC Value @25°C	Size	Package	Certificate of Analysis
HI70031C	1413 $\mu\text{S}/\text{cm}$	20 mL	25 sachets	•
HI70031P	1413 $\mu\text{S}/\text{cm}$	20 mL	25 sachets	
HI77100C	1413 $\mu\text{S}/\text{cm}$ & pH 7.01	20 mL	20 sachets (10 ea)	•
HI77100P	1413 $\mu\text{S}/\text{cm}$ & pH 7.01	20 mL	20 sachets (10 ea)	

ติดต่อบริษัท เนอนิคส์ จำกัด

Tel: 02-077-7602 หรือ 061-8268939

E-mail: sale@neonics.co.th หรือ sale@tools.in.th

LINE ID:neonicstool



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## 5000 $\mu\text{S}/\text{cm}$ Calibration Solution

This calibration solution is ideal for applications that need to achieve higher reading accuracies in a conductivity scale between 2,000  $\mu\text{S}/\text{cm}$  and 10,000  $\mu\text{S}/\text{cm}$ . This solution is widely used in agriculture for monitoring and preparing nutrient solutions for proper crop production.

Hanna has produced a 5000  $\mu\text{S}/\text{cm}$  calibration solution that is available in a wide range of sizes and packages to suit every application.

## 12880 $\mu\text{S}/\text{cm}$ Calibration Solution

The 12880  $\mu\text{S}/\text{cm}$  (12.88 mS/cm) calibration solution is widely used to assure the proper performance of conductivity meters with a scale higher than 10 mS/cm.

This solution is used mainly for industrial applications and is available in various sizes to better meet user requirements.



## 5000 $\mu\text{S}/\text{cm}$ Bottles

Code	EC Value @25°C	Size	Package	FDA Bottle	Certificate of Analysis
HI7039L	5000 $\mu\text{S}/\text{cm}$	500 mL	1 bottle		
HI7039M	5000 $\mu\text{S}/\text{cm}$	230 mL	1 bottle		
HI8039L	5000 $\mu\text{S}/\text{cm}$	500 mL	1 bottle	•	•

## 5000 $\mu\text{S}/\text{cm}$ Sachets

Code	EC Value @25°C	Size	Package	Certificate of Analysis
HI70039C	5000 $\mu\text{S}/\text{cm}$	20 mL	25 sachets	•
HI70039P	5000 $\mu\text{S}/\text{cm}$	20 mL	25 sachets	

## 12880 $\mu\text{S}/\text{cm}$ Bottles

Code	EC Value @25°C	Size	Package	FDA Bottle	Certificate of Analysis
HI7030/1G	12880 $\mu\text{S}/\text{cm}$	1 G (3.78 L)	1 bottle		
HI7030L	12880 $\mu\text{S}/\text{cm}$	500 mL	1 bottle		
HI7030M	12880 $\mu\text{S}/\text{cm}$	230 mL	1 bottle		
HI8030L	12880 $\mu\text{S}/\text{cm}$	500 mL	1 bottle	•	•

## 12880 $\mu\text{S}/\text{cm}$ Sachets

Code	EC Value @25°C	Size	Package	Certificate of Analysis
HI70030C	12880 $\mu\text{S}/\text{cm}$	20 mL	25 sachets	•
HI70030P	12880 $\mu\text{S}/\text{cm}$	20 mL	25 sachets	

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## 80000 $\mu\text{S}/\text{cm}$ Calibration Solution

The 80,000  $\mu\text{S}/\text{cm}$  calibration solution is needed for the proper calibration of instrumentation used to measure high conductivity samples such as wastewater, solutions with suspended solids and plating baths.

It is available in two different sizes and also in an FDA approved light shielded bottle.

This calibration solution is also ideal for use in the agroalimentary sector.

## 111800 $\mu\text{S}/\text{cm}$ Calibration Solution

This calibration solution is useful to calibrate instrumentation used to measure samples with conductivity higher than 100 mS/cm (100,000  $\mu\text{S}/\text{cm}$ ).

In fact, this solution makes it possible to calibrate instruments that perform under conditions of high salt concentrations.

This calibration solution is ideal for use in systems where phase limits have to be detected (e.g. separation of a substance from water), monitoring of bottle washing plants, beverage controls, check of acids or bases in electrodeposition processes and some plating baths.



### 80000 $\mu\text{S}/\text{cm}$ Bottles

Code	EC Value @25°C	Size	Package	FDA Bottle	Certificate of Analysis
HI7034L	80000 $\mu\text{S}/\text{cm}$	500 mL	1 bottle		
HI7034M	80000 $\mu\text{S}/\text{cm}$	230 mL	1 bottle		
HI8034L	80000 $\mu\text{S}/\text{cm}$	500 mL	1 bottle	•	•

### 111800 $\mu\text{S}/\text{cm}$ Bottles

Code	EC Value @25°C	Size	Package	FDA Bottle	Certificate of Analysis
HI7035L	111800 $\mu\text{S}/\text{cm}$	500 mL	1 bottle		
HI7035M	111800 $\mu\text{S}/\text{cm}$	230 mL	1 bottle		
HI8035L	111800 $\mu\text{S}/\text{cm}$	500 mL	1 bottle	•	•

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# TDS Calibration Solutions

Quality Solutions for Laboratory Applications

## TDS Solutions

Hanna is one of the few producers to offer calibration solutions in packages from 20 to 500 mg/L for lab and field applications. Our packaging has been designed to keep air and light from damaging the solution.

## Safety Data Sheets

The safety data sheets for all Hanna solutions in this catalog are available at [www.hannainst.com](http://www.hannainst.com) or upon request.

## Expiration Date

The production batch number and the expiration date are reported on all Hanna calibration solutions.

## NIST Traceability

TDS solutions are produced with high-quality potassium chloride in various concentrations. They are standardized using a conductivity meter calibrated with NIST potassium chloride.



## TDS Bottles

Code	TDS Value @25°C	Size	Package	Certificate of Analysis
HI6032	1382 mg/L (ppm)	500 mL	1 bottle	•
HI7032L	1382 mg/L (ppm)	500 mL	1 bottle	
HI7032M	1382 mg/L (ppm)	230 mL	1 bottle	
HI7036L	12.41 g/L (ppt)	500 mL	1 bottle	
HI7036M	12.41 g/L (ppt)	230 mL	1 bottle	
HI70442L*	1500 mg/L (ppm)	500 mL	1 bottle	
HI70442M*	1500 mg/L (ppm)	230 mL	1 bottle	

## TDS Sachets

Code	TDS Value @25°C	Size	Package	Certificate of Analysis
HI70032C	1382 mg/L (ppm)	20 mL	25 sachets	•
HI70032P	1382 mg/L (ppm)	20 mL	25 sachets	
HI70038C	6.44 g/L (ppt)	20 mL	25 sachets	•
HI70038P	6.44 g/L (ppt)	20 mL	25 sachets	
HI70080C	800 mg/L (ppm)	20 mL	25 sachets	•
HI70080P	800 mg/L (ppm)	20 mL	25 sachets	
HI70442C*	1500 mg/L (ppm)	20 mL	25 sachets	•
HI70442P*	1500 mg/L (ppm)	20 mL	25 sachets	
HI77200C	1500 mg/L (ppm) & pH 7.01	20 mL	20 sachets (10 ea)	•
HI77200P*	1500 mg/L (ppm) & pH 7.01	20 mL	20 sachets (10 ea)	

\* TDS Conversion Factor 4-4-2: 0.65 ppm = 1 µS/cm (approximately).

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# Salinity Calibration Solutions

## Salinity Bottles

Code	Description	Size	Package
HI7037L	Salinity solution	500 mL	1 bottle
HI7037M	Salinity solution	230 mL	1 bottle