

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) | |

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

The 80,000 $\mu\text{S/cm}$ 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 $\mu\text{S/cm}$ Calibration Solution

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

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

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

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

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



Salinity Calibration Solutions

Salinity Bottles

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

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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