# **DG** Water Test Hydrazine Low Range Narrow Span (PN: 83305)



# **CHEMIEQ**

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#### 1. Application

The DG Water Test PN: 83305 is a colorimetric water test kit designed to provide real-time indication and quantification of hydrazine in water.

#### 2. Components of the Test Kit

- a. 30 Sample Vials, PN: 83305-1030
- b. One Developing Solution Bottle, PN: 83305-2000
- c. 30 Disposable Pipettes, PN: 83305-3030
- d. One Color Comparator, PN: 83305-6000

# 3. Components of the Test Kit Refill

- a. 30 Sample Vials, PN: 83305-1030
- b. One Developing Solution Bottle, PN: 83305-2000
- c. 30 Disposable Pipettes, PN: 83305-3030

To Reorder: PN: 83305-5000

#### 4. Specifications

#### 4.1. Overall Specification

# A. Sample Vial

a. Weight: 0.75g (0.027oz)

b. Dimensions: 3.3cm (1.3in), Φ: 10mm (0.4" in) 4°C to 60°C (39°F to 140°F) c. Operating temperature: d. Minimum detectable limit: 10ppm in 5 minutes

e. Detection range with color comparator: 10 to 500ppm

f. Color change: Colorless to yellow or orange g. Storage temperature: 4°C to 25°C, (39°F to 77°F)

h. Shelf life: 1 year

# **B.** Developing Solution

a. Weight: 9.g (0.32oz)

b. Dimensions: 2.3cm (0.9in),  $\Phi$ : 18mm (0.69" in)

#### C. Color Comparator

a. Weight: 28g (1oz)

10.9cm (4.3in) x 10.5cm (4.1in) x 0.7cm (0.3in) b. Dimensions:

10ppm to 500ppm c. Range

10, 15, 25, 50, 75, 100, 125, 150, 175, 200, 225, d. Incruments (ppm): 250, 275, 300, 325, 350, 375, 400, 425, 450, 500.

#### D. Disposable Pipette

a. Weight: 0.75g (0.027oz)

b. Dimensions: 15cm (6in), Φ: 1.3cm (0.5" in)

c. Capacity: 0.5ml

# 4.2. Cross interferences

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Aromatic amines and aromatic hydrazine produce similar color. No other interferences known

# 5. Operating Instructions

a. Use gloves and protective glasses when handling Hydrazine.

#### Hydrazine L Range DG Water Test Manual

- b. Ensure that packaging pouch is intact.
- c. Open packaging pouch by tearing off the top part from one of side notches.
- d. Remove one sample vial from packaging pouch.
- e. Open sample vial cap and add 0.4ml of water sample using the disposable pipette (Figure 1).
- f. Add three drops of developing solution to sample vial (Figure 2).
- g. Firmly close sample vial cap and shake (Figure 3).
- h. Wait 5 minutes with occasional shaking for complete color development.

# NOTE: Reading the result before 5 minutes or waiting much longer than 5 minutes may lead to negative or positive results







Figure 1

Figure 2

Figure 3





Figure 4

Figure 5



Figure 6

- i. Use the color comparator (Figure 6) to determine the concentration of hydrazine in the water sample
- Insert the sample vial into the vial holder as shown in Figures 4 and 5.
- Turn the bottom color wheel to match colors. The color formed in the sample vial is directly proportional to the concentration of hydrazine in the water sample.
- To compensate for any dark substance or dirt in the water sample, turn the top gray scale wheel to achieve better color match.