

Method

Hydrazine is a powerful reducing agent that is used in various chemical processes and in boiler water as an oxygen scavenger. To control corrosion, residual hydrazine typically is maintained in the 0.05 to 0.1 mg/L range. Higher levels may be used to guard against corrosion when the boiler is out of service for an extended period.

The PDMAB Method

References: ASTM D 1385-07, Hydrazine in Water. L. C. Thomas and G. J. Chamberlin, Colorimetric Chemical Analytical Methods, 8th ed., pp. 194-195, Method I (1974).

CHEMetrics' hydrazine test kits employ the PDMAB, paradimethylaminobenzaldehyde chemistry. PDMAB in acid solution reacts with hydrazine to form a yellow product. Results are expressed as ppb (µg/L) or ppm (mg/L) N₂H₄.



Visual Kits

Range: 0-50 ppb
MDL: 2 ppb / Method: PDMAB

| | Cat# |
|--|---------------|
| ULR CHEMets Kit | K-5011 |
| ULR CHEMets Refill, 30 ampoules | R-5011 |
| Comparator 0, 2, 5, 10, 20, 30, 40, 50 ppb | C-5011 |
| Kit comes in a cardboard box and contains everything needed to perform 30 tests: Refill, Comparator, 25 mL sample cup, instructions, and MSDS. | |

Range: 0-0.5 ppm
MDL: 0.005 ppm / Method: PDMAB

| | Cat# |
|---|---------------|
| CHEMets Kit | K-5005 |
| CHEMets Refill, 30 ampoules | R-5005 |
| Comparator 0, 0.01, 0.03, 0.05, 0.07, 0.1, 0.3, 0.5 ppm | C-5005 |
| Kit comes in a plastic case and contains everything needed to perform 30 tests: Refill, Comparator, 25 mL sample cup, instructions, and MSDS. | |

Range: 0-12.5 ppm
MDL: 0.25 ppm / Method: PDMAB

| | Cat# |
|--|----------------|
| VACUettes Kit | K-5005D |
| VACUettes Refill, 30 ampoules | R-5005D |
| Comparator 0, 0.25, 0.75, 1.25, 1.75, 2.5, 7.5, 12.5 ppm | C-5005D |
| Kit comes in a plastic case and contains everything needed to perform 30 tests (except distilled water): Refill, Comparator, dilutor snapper cup, micro test tube, instructions, and MSDS. | |

Range: 0-25 ppm
MDL: 0.5 ppm / Method: PDMAB

| | Cat# |
|--|----------------|
| VACUettes Kit | K-5005A |
| VACUettes Refill, 30 ampoules | R-5005A |
| Comparator 0, 0.5, 1.5, 2.5, 3.5, 5, 15, 25 ppm | C-5005A |
| Kit comes in a plastic case and contains everything needed to perform 30 tests (except distilled water): Refill, Comparator, dilutor snapper cup, micro test tube, instructions, and MSDS. | |





Instrumental Kits

V-2000 Multi-Analyte Photometer*(See page 14 for instrumental features)***Range: V-2000: 0.10-1.20 ppm / Spec: 0.070-0.700 ppm**
Method: PDMAB**Vacu-vials Kit****Cat#****K-5003**

Kit comes in a cardboard box and contains everything needed to perform up to 30 tests: thirty ampoules, 25 mL sample cup, ampoule blank, instructions, and MSDS.

Vacu-vials Kits require the use of the V-2000 Photometer or a spectrophotometer capable of accepting a 13 mm diameter round cell. Instrument sold separately.

Kit Components common to Hydrazine

| Description | Cat# |
|---------------------------------|--------|
| Sample Cup Pack, 25 mL (6 ea) | A-0013 |
| Micro Test Tube Pack (10 ea) | A-0015 |
| Dilutor Snapper Cup Pack (6 ea) | A-0018 |
| Ampoule Blank Pack (5 ea) | A-0023 |

Instructions and MSDS(s) are posted on our website.

If no shelf-life is listed for a product, then the shelf-life is at least 2 years.

Range: 0-50 ppm**MDL: 1 ppm / Method: PDMAB****VACUettes Kit****Cat#****K-5005B**

VACUettes Refill, 30 ampoules

R-5005B

Comparator

0, 1, 3, 5, 7, 10, 30, 50 ppm

C-5005B

Kit comes in a plastic case and contains everything needed to perform 30 tests (except distilled water): Refill, Comparator, dilutor snapper cup, micro test tube, instructions, and MSDS.

Range: 0-500 ppm**MDL: 10 ppm / Method: PDMAB****VACUettes Kit****Cat#****K-5005C**

VACUettes Refill, 30 ampoules

R-5005C

Comparator

0, 10, 30, 50, 70, 100, 300, 500 ppm

C-5005C

Kit comes in a plastic case and contains everything needed to perform 30 tests (except distilled water): Refill, Comparator, dilutor snapper cup, micro test tube, instructions, and MSDS.

