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## **ACCREDITATION / REGISTRATION**

Inorganic Ventures is an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

## **DISCRETE ANALYZER REAGENT** Mercuric thiocyanate / Ferric nitrate solution

Catalog No: DA-CL-COLOR  
Lot No: T2-DA728139

Starting Material: Mercuric (II) thiocyanate  
Starting Material Lot No: IV-2584

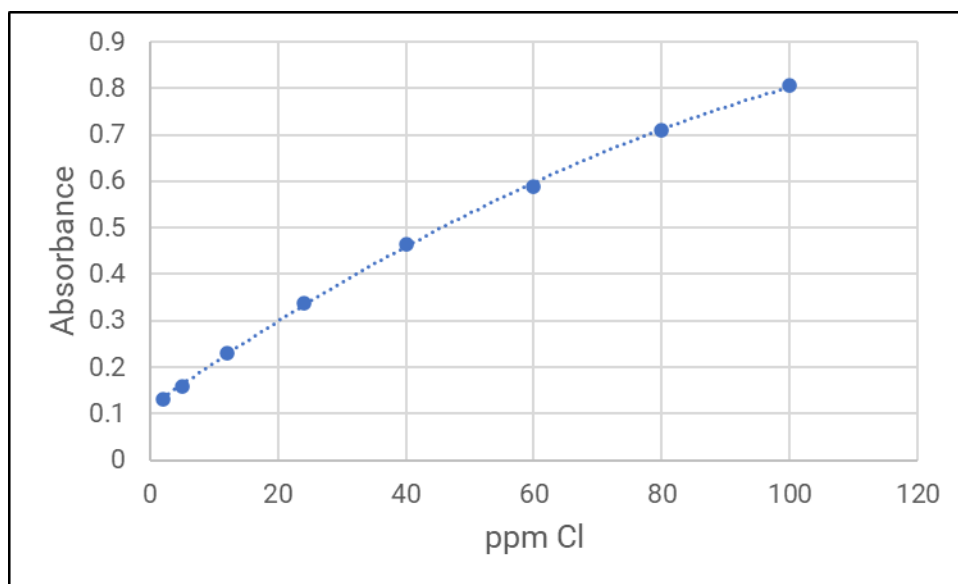
Starting Material: Iron (III) nitrate nonahydrate  
Starting Material Lot No: IV-2592

**NOMINAL CONCENTRATION:** 0.6255 g/L Mercuric (II) thiocyanate / 30.3 g/L Iron (III) nitrate nonahydrate

**This solution is a reagent and is not intended to be used as a certified reference material.**

## **PREPARATION**

This reagent solution is ready to use without further preparation for analyzing Chloride in water utilizing discrete analyzer methods based on method chemistry described in EPA Method 325.2. Figure 1 demonstrates a Chloride calibration curve generated on a SEAL AQ400 discrete analyzer using this lot of reagent.



**Figure 1:** Correlation Coefficient = 0.9996 / Polynomial Order = 2

Concentration	Result	Acceptance Limits
2	0.1307	0.0850 – 0.1416
5	0.1592	0.1066 – 0.1776
12	0.2316	0.1570 – 0.2616
24	0.3378	0.2308 – 0.3846
40	0.4650	0.3058 – 0.5096
60	0.5895	0.3829 – 0.6381
80	0.7086	0.4446 – 0.7410
100	0.8066	0.4992 – 0.8320

**STORAGE AND HANDLING**

Store refrigerated at 4° C while in sealed TCT bag. After opening the sealed TCT bag keep cap tightly sealed when not in use. Continue to store bottle at 4° C when not in use. Do not return removed aliquots to container. Allow for reagent to reach room temperature and shake well before use.

Certification Date: 01/04/2023

Prepared By:

*Uyen Truong*

Approved By:

*Michael Z Booth*

Expiration Date: 06/04/2023

Certifying Officer:

*Paul R. Gaines*