

SCINTILLA

A SALESLETTER AND CUSTOMER ADVISORY IN THE INTEREST THAT KNOWLEDGE IS POWER AND EXPERIENCE SAVES
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The Limerick Station: Twin General Electric 1143MW boiling water reactors punctuated by twin 507 ft. natural draft hyperbolic cooling towers. Shantego, Pennsylvania.

Chemists serving the process needs of chemists
Serving the power generation industry



Target

ORION 1800 SERIES SODIUM ANALYZER

Orion—**1.** *Greek Mythology.* A giant hunter, pursuer of the Pleiades and lover of Eos, killed by Artemis. **2.** A constellation in the celestial equator near Gemini and Taurus, containing the stars Betelgeuse and Rigel.



Orion's sodium monitor has been a star performer, the most populated so far in the power generation stations. My surveys show it represents over 60% of the total units installed.. Old by today's technology rules, it is a straight forward design that still meets the application need. When main-



Courtesy: Kevin Rushing
Stem Pacific Power

tained routinely, most analyzers deliver very long service lives.

The reagent chemical used here is ethylamine. It passively diffuses through the silicone tubing immersed in the reagent bottle, and mixes with the sample. By raising the pH of the sample above 11, interference from hydrogen ions is eliminated.

Timeline:

1384—English alchemist John Dombleday writes *Stella alchimiae/Star of Alchemy*, a manual of the craft. [Late Latin *stēllāris*, from Latin *stēlla*, star.]

1. Of, relating to, or consisting of stars. **2.a.** Of or relating to a star performer. **b.** Outstanding; principal.

That's where we come in. We dilute the 70% ethylamine to 33% by weight and package it in a 872mL fill allowing for tubing displacement. Completely compatible with the analyzer, the bottle is the same as the Nalge heavy duty, leak proof, 63mm neck HDPE bottle. But, with a plain white label. Six(6) bottles ship in a 4G Carton (no plastic) - catalog number E3057-6L. It ships with six 4 ft. lengths of thick-walled diffusion tubing and 1800 series o-rings— so it is equivalent to the Orion product code 151111. To complete the reagent chemical consumables; the fill

solutions, cleaning etch, and standards are also offered. That's it, no fancy silk screened bottles, no big marketing department. It is manufactured at a reagent chemical production facility and directly sold and marketed to end-users. It is of certifiable quality, a direct equivalent to what you're using now.



Haron's The Stellan

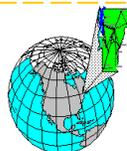
Monoethylamine, or ethylamine, CAS 75-04-7, is an alkyl amine manufactured as a 70% aqueous solution. Known commercially as MEA-70, it's intended use is as an intermediate for dyestuffs and medicinals; and in oil refining and organic synthesis. At 70% it has a flash point of less than 32°F. We dilute with de-ionized water to the 33% used on the analyzer. This is a strongly exothermic process best conducted outdoors. It's nasty stuff!

My use of "we" refers to LabChem, Inc., my chemical manufacturer.

My specified products are custom packaged in their GLP/GMP manufacturing facility. Together, we meet all your requirements, including testing and compliance. You have the assurance of a quality system that is registered in accordance with ISO9001(2000). Number:306-01.



Order as needed by credit card...



DS&M-SCIENTIFIC

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