

Petrochemical Applications.

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PROCESS ANALYZER CALIBRATION STANDARDS

The rapid automation of many production processes has resulted in the widespread use of process analyzers in most petrochemical plants. Online process monitoring has replaced a large number of laboratory analyses, allowing adjustments to be made in a more timely manner, less off spec material, and increased yields.

The calibration of these process analyzers requires standards that closely duplicate the conditions of the stream they are sampling. Air Liquide has the expertise to produce calibration standards that are stable and duplicate the process stream being analyzed.

These may be either gas or liquid blends whose composition can be very complex.

Some typical standards include:

- Monitoring of feedstock streams for a chemical process. This may include standards with trace minor components at ppm or even ppb levels with balance gases such as ethylene, propylene, or propane.
- Monitoring of intermediate streams in a chemical process. These blends often consist of several components many of which could be present in percent levels.
- Monitoring of recycle streams in a plant process. Analyzers are used to determine how to adjust a downstream process to allow for the use of a recycle stream that may be changing.
- Quality Assurance for final product streams.
- Monitoring of waste streams going for disposal.

Technical Strength

Air Liquide has the expertise to help optimize the blend composition for maximum stability. Air Liquide has been producing these standards for many years and has the experience to know which blends will remain stable and what components will not be stable. We stock more than 800 pure components at our La Porte, Texas, facility for making these blends. Our knowledgeable technical experts in our production facilities can help you to select the best standards for your operation that will allow you to obtain the results you are seeking. Trust our experts to answer your needs.

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