Accurately measuring feedstock impurities at increasingly lower concentrations is critical to process efficiency and profitability. For example, producers of high-purity monomers face stiff competition and tight purity specifications. Research and production operations in the food, pharmaceutical, chemical, and semi-conductor industries require high-purity gases as well.

Failure to characterize impurities in feedstock streams can render the gas unfit for a given application. Trace contaminants can also contribute to equipment corrosion and reduced polymer yields. Worst of all, they can cause catalyst degradation, poisoning, and contamination—leading to costly downtime and catalyst bed replacement.

Confidently detect trace contaminants in process feedstocks and finished products immediately after installation

Based on Agilent 7890B GC system, Permanent Gas and Trace Impurity Analyzers are factory-configured and chemically tested to measure permanent gases in refinery and natural gas streams. They can also detect sub-ppm-level contaminants in high-purity gases, monomers, and other light hydrocarbon streams.

Agilent Permanent Gas and Trace Impurity Analyzers include innovative technology and reflect our stringent quality control process. Systems include:

**Factory**
- System setup and leak testing
- Instrument checkout
- Installation of appropriate columns
- Factory-run checkout method using application checkout mix

**Delivery**
- Instrument manual for running the method
- CD-ROM with method parameters and checkout data files for easy out-of-the-box operation
- Application related consumables included—no separate ordering required
- Easy consumables re-ordering information

**Installation**
- Duplicate factory checkout with checkout sample—onsite by factory-trained support engineer
- Optional application startup assistance
Perform fast, unattended analysis and produce stable results using these built-in features:

- **Pre-configuration and chemical testing** ensure optimal performance for ppm-to-%-level analysis in high-purity gas streams.
- **Multi-column, multi-detector configurations** maximize the data obtained from a single analysis.
- **Capillary Flow Technology (CFT)** reduces analysis time, improves data, and minimizes the need for system maintenance.
- **Onsite installation and performance checkout** confirm that your analyzer and application meet rigorous Agilent performance criteria.
- **System familiarization** enables your team to begin calibration and validation immediately following installation.

**Ordering information:**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Analyzer Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP1 7890-0538</td>
<td>Permanent Gas Analyzer, Single Channel</td>
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<tr>
<td>SP1 7890-0573</td>
<td>Permanent Gas/Hydrogen Analyzer</td>
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<tr>
<td>G3445 Series #646</td>
<td>Low CO and CO2 in Process Gases Containing High CH4 Analyzer</td>
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<tr>
<td>G3445 Series #647</td>
<td>Low CO and CO2 in Process Gas Analyzer</td>
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<tr>
<td>SP1 7890-0191</td>
<td>Inert Impurities in Pure Chlorine Analyzer</td>
</tr>
<tr>
<td>SP1 7890-0219</td>
<td>Trace Impurities in Helium Analyzer by PDHID</td>
</tr>
<tr>
<td>SP1 7890-0237</td>
<td>Impurities in Monomers Analyzer by PDHID</td>
</tr>
<tr>
<td>SP1 7890-0305</td>
<td>Inert Impurities in Crude Chlorine Analyzer</td>
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<tr>
<td>SP1 7890-0341</td>
<td>Trace Oxygenates and Hydrocarbons in Ethylene Analyzer</td>
</tr>
<tr>
<td>SP1 7890-0386</td>
<td>Trace CO and CO2 in Hydrogen and Light Gaseous Hydrocarbons Analyzer</td>
</tr>
<tr>
<td>SP1 7890-0409</td>
<td>Impurities in Ethylene/Propylene Analyzer by PDHID</td>
</tr>
</tbody>
</table>

Put your applications on the fast track

Contact your local Agilent Representative or Agilent Authorized Distributor at agilent.com/chem/contactus

Or call **800-227-9770** (in the U.S. or Canada)

Visit agilent.com/chem/appkits for a description of available Analyzers and Application Kits

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