Monitor trace impurities in CO₂ used in carbonated beverages and food packaging.
The BevAlert® System is designed to exceed the analytical requirements of the ISBT guidelines for the detection of impurities in beverage grade carbon dioxide such as Acetaldehyde, Methanol, Benzene, Total Sulfur, Total Hydrocarbons and more (see Specifications).

The function of dissolved CO₂ gas in beverages is to provide effervescence and some acidity without introducing any undesired sensory effects. As CO₂ is a key ingredient in many products, CO₂ quality management is essential for ensuring consumer satisfaction. Carbon dioxide is produced for the food and beverage industry as a side product of multiple processes such as fermentation, combustion, ammonia & hydrogen production, and the creation of bioethanol. Due to the source of the CO₂ and the complex supply chain that is often required to deliver CO₂ to user facilities - such as improper transport, storage, or outlet dispensing practices - additional contaminants may be introduced into the CO₂. It is the responsibility of a CO₂ producer to identify, measure and control all listed impurities at acceptable levels in their final CO₂ product. Bottlers who use CO₂ are responsible for ensuring that all of their CO₂ supply chain vendors follow good manufacturing and handling practices and have met their obligation to provide beverage grade CO₂ to their facilities. In addition, bottling operators should also recognize that poorly designed or maintained CO₂ delivery systems can degrade CO₂ quality within their outlets and that proper quality control actions must be taken to prevent such problems.

The BevAlert® System is utilized by both carbonated beverage bottlers and specialty gas manufacturers to monitor trace impurities in carbon dioxide that may have been contaminated during its production and recovery. Quick detection of these impurities will save time and money during production while also guaranteeing a safe product for consumers.
International Society of Beverage Technologists (ISBT) Guidelines

This quality guideline focuses on purity grade selection, transport, storage, dispensing, and safe handling of carbon dioxide (CO₂) used in fountain beverage production. An expert international committee comprised of beverage manufacturers, CO₂ producers, supply chain vendors, analytical service providers, and in-line polisher/filter suppliers developed these guidelines based upon best available practices.

BevAlert Advantages

- Fully automated computer controlled system
- Touchscreen for set-up, control, and data display
- Remote access via LAN
- Viewable data is selectable:
  - Realtime
  - Historical
  - Diagnostic
- Built-in audible and visual alarms for:
  - Concentrations
  - Flow control
  - Diagnostics
- Certificate of Analysis (COA) generation
- Optional Trailor Sample Panel for:
  - Odor
  - Appearance
  - Taste
- Multipoint sampling available
001-431 Model 9000 Total Hydrocarbon Analyzer
MDQ: < 10 ppb
Linear Dynamic Range: 0 - 200 ppm
Response Time: < 5 seconds T90
Accuracy, Linearity, Repeatability: +/- 1%

042-892 Model 8900 Total Sulfur Analyzer
MDQ: < 20 ppb
Linear Dynamic Range: 10,000 times ISBT detection limits
Analysis Time: 300 seconds
Accuracy, Linearity, Repeatability: +/- 1%

004-637 Model 8900 Acetaldehyde, Methanol, Benzene Analyzer
MDQ: Acetaldehyde < 50 ppb, Methanol < 2 ppm, Benzene < 2 ppb
Linear Dynamic Range: 10,000 times ISBT detection limits
Analysis Time: 360 seconds
Accuracy, Linearity, Repeatability: +/- 1%

Consult Baseline-MOCON for additional analyses or options:
• Tailor Sample Panel
• Moisture
• Oxygen
• Vinyl Chloride
• Ethanol
• Toluene
• Ethylbenzene
• Xylenes
• n-Pentane
• Hydrogen Sulfide
• many more

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