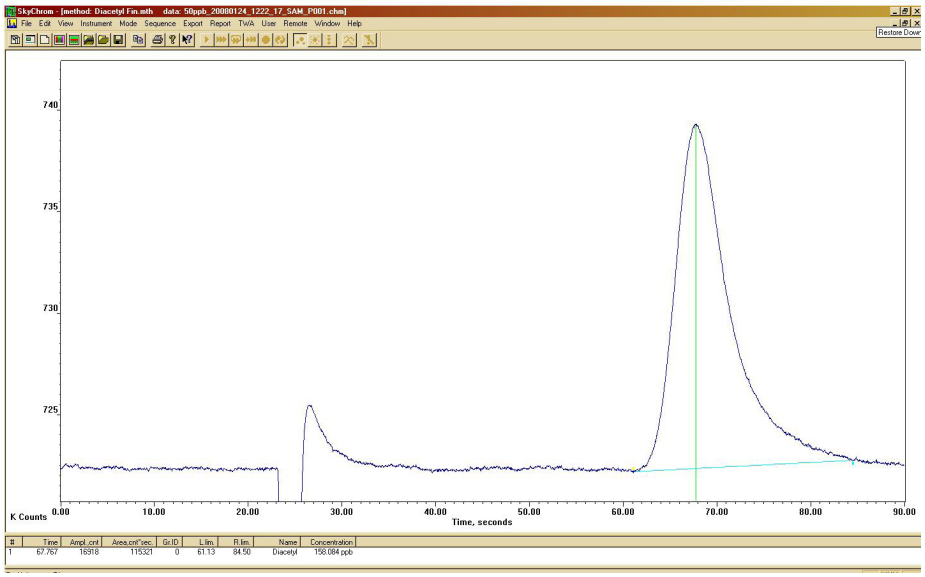
Series 8900GC Application Note

Diacetyl



Analyzer

The Series 8900 Diacetyl Analyzer provides direct measurement of Diacetyl in ambient air. This instrument is utilized for enviromental monitoring and to monitor workplace exposure limits.

The Series 8900 Analyzer for Diacetyl employs a photoionization detector (PID) as the sensing element. A dual column configuration with timed backflush to vent is used to strip off moisture and heavier hydrocarbons. A pre-cut column is used in series with the analytical column. At sample injection a fixed volume of sample is carried to the pre-cut column. Backflush is timed so that only the Diacetyl and other similar components are eluted to the analytical column. Contaminants on the pre-cut column are backflushed to vent. The Diacetyl is separated from potentially interfering components on the analytical column and elute to the detector for analysis.

Application

- Measurement of diacetyl to monitor workplace exposure limits

Features

- Direct measurement of Diacetyl
- Interference free response
- Automatic calibration for unattended operation
- Automatic baseline adjustment for long-term stability
- Analog output ranges are user selectable
- Graphic display of current or historical concentrations
- Multipoint sampling options
- RS-232 and optional LAN

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Baseline® - MOCON®, Inc.

Specifications

Analysis Time: <90 seconds

Detector: PID (High-sensitivity PID Optional)

Column: Capillary

Oven Temperature: 80°C, Nominal

Carrier Gas: Nitrogen, 6.5cc/min, Nominal

Lower Detection Limit: <6 ppb

Accuracy: 1% of Full-scale

Precision: 2% of Measured Value

Span Drift (24HR): <2% of Full-scale

Sample Flow Rate: 250-500cc/min, typical

Output:

Analog: (1) 0-20ma or 4-20ma loop power supplied, isolated. Selectable for: gas concentration, unintegrated detector signal. Options for up to 20 additional programmable 0-20ma, 4-20ma or voltage outputs: 0-1V, 0-5V, or 0-10V.

Digital: RS-232, optional Local Area Network

Relays: (5) User programmable relays for concentration and diagnostic alarms (1A @ 30Vdc). Options for up to 32 additional relays available.

Inputs: Optional digital input board for 3 contact closure inputs. Supports start analysis, start calibration, and analyze calibration gas sample.

This application note is an only an example based on customer or market specifications. These parameters are variable and therefore do not reflect all of the versatility and options of Series 8900 GC. Please contact Baseline regarding your specific application

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