

CO₂ Analysis Service



CO₂ Analysis Service

General Information

Product quality and safety are essential in the Beverage Industry. Each beverage has therefore to be free of hazardous contaminants that could harm the customer or negatively influence the taste, smell and/or the shelf life of the product. As CO₂ both recovered and/or commercial is often added to the product by means of carbonation, a frequent control on hazardous contaminants is vital. The CO₂ Analysis Service (CAS) is offering the analysis of both commercial and recovered gas. In the latter case the analysis is a proper tool to check the performance of the CO₂ Recovery Plant.

Principle of operation

Upon placing the order, Haffmans is forwarding special protected sample bags accompanied by sampling instructions. The customer fills the sample bags according to these instructions and returns the bags to Haffmans.

Within 5 working days an objective analysis report is forwarded. This report specifies the measured concentrations comparing same with experience of other customers. In case the concentration is too high, the customer is advised to contact the CO₂ Systems Service Department of Haffmans. This way a fast and complete service can be granted.



CAS

CO₂ Analysis Service



Benefits

- Perfect product control
 - confirmation of CO₂ quality
 - very low detection limits
 - detection of unexpected compounds
 - objective measurement
- Check-up performance CO₂ recovery plant
- Know-how center for CO₂

Technical Data

Suphurous compounds

- Hydrogen sulphide (H₂S)
- Carbonyl sulphide (COS)
- Dimethyl sulphide (DMS)

Alcohols

- Methanol
- Ethanol
- 1-Propanol
- Iso-butanol
- 2-Methyl-1-butanol
- 3-Methyl-1-butanol

Organic compounds:

- Acetaldehyde
- Acetone
- Ethylacetate
- Ethylpropionate
- Iso-amylacetate
- Ethylcaproate

Aromates

- Benzine
- Toluene

The CO₂ samples are analyzed with a gas chromatograph with mass spectrometer detector (state-of-the-art gas chromatical analysis)

Gas chromatical detection limits

Alcohols:	1 ppb w/w
Organic compounds:	1 ppb w/w
Aromates:	1 ppb w/w

H ₂ S:	20 ppb w/w
COS:	10 ppb w/w
DMS:	1 ppb w/w

Scope of Supply

- Sample bag
- Sampling procedure
- Shipping instructions
- Sampling report
- Report of analysis (after analysing the sample bag)

Options

- CO
- CH₄
- NO_x
- NH₃

Haffmans BV reserves the right to make changes in the technical specifications at any time.



ISO 9001 : 2000 Accredited by RvA

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