

SPARK M-30

Exact verification of Dimethyl Dicarbonate (DMDC) dosage

Do you produce beverages, such as...

- Juice spritzer,
- Iced tea,
- Flavoured water,
- Sports- or energy drinks,
- Alcohol free wine,
- Beer and wine cocktails,
- Cider,
- Hard seltzer?

Do you use **dimethyl dicarbonate (DMDC; E242)** to ensure the microbiological stability of your beverages?

Do you know for each batch whether the dosage was correct?

What would happen if the dosage was too high or not at all? What would the consequences be?

With the Spark M-30 you simply check every DMDC dosage by measuring the methanol content!

OUR METHOD OF MEASUREMENT

- **Accurate** - Detection limit 1 ppm
- **Fast** - 5 minutes measurement time
- **Cost-effective** - < 5€ per measurement
- **Uncomplicated** - No sample preparation
- **Integrated** - Data export via USB interface



YOUR BENEFIT

- Constant quality control of bottlings
- General control of dosage quantity (dosage correct?)
- Safeguarding in case of customer complaints
- Faster release of blocked goods
- Control during test runs of new developments

SPECIFICATIONS

Measurement methodology

Measuring principle	Headspace gas chromatography
Measuring range	0 - 999 ppm* methanol
Accuracy**	5 ppm or 5% of the measured value (whatever is larger)
Resolution	1 ppm
Limit of detection	1 ppm
Ethanol Limit	0 - 20 vol% ethanol in sample

Sampling

Sample volume	2 mL
Measurement time	2 - 4 min
Op. temperature	10 - 35 °C (50 - 95 °F), Automatic temperature correction
Op. humidity	0 - 90% relative humidity

Instrument

Internal storage	Up to 1.000 measurements
Power supply	Rechargeable LiPol battery (3900mAh)
Dimensions	195 x 100 x 40 mm
Weight	ca. 360 g
Interfaces	USB-C cable to PC
Protection class	IP31
CE-Certification	EMV, RoHs, UN dot 38.3

Accessories

Sample vials	For taking the sample and screwing it into the device
Pipettes	For taking the sample liquid
Calibration standards	For regular calibration for maximum accuracy
Transport case	For the safe transport of the Spark M-30
USB-Cable with plug	For charging the battery and as interface to the computer

*The device informs the user when the concentration exceeds 999 ppm. Mass concentration (DIN 1310) at a reference temperature of 25 °C.

**Standard deviation of the reproducibility with methanol-water mixtures (10 - 1000 ppm)