SKC UMEx 300 Passive Sampler

Single-use passive sampler for ammonia in workplace air, 0.1 to 100 ppm

The UMEx 300 collects ammonia on a sulphuric acid-treated tape behind a diffusion barrier, with no pump. Moving the slide opens the sampler and moving it back stops the sample. Its chemistry is similar to the active methods OSHA ID-188 and NIOSH 6016; the laboratory analyses the ammonium ion.



39.92 mL/min	0.1–100 ppm	0.075 ppm	±23.4 %
Sampling rate	Validated concentration range	Lower detection limit, 8 h	Accuracy

Performance

Sampling rate	39.92 mL/min, relative standard deviation 11.4 %
Validated concentration range	0.1–100 ppm
Sampling time	15 minutes, 8 hours or 24 hours
Lower detection limits	15 min: 2.4 ppm 8 h: 0.075 ppm 24 h: 0.025 ppm
Accuracy	±23.4 %
Interferences	None identified
Analysis	Solvent extraction and ion chromatography with conductivity detection, or visible absorption spectrometry, for the ammonium ion

Operating conditions

Temperature	No effect on the sampling rate from 22 to 40 °C
Humidity	No effect from 20 to 80 % relative humidity (RH)
Air velocity	No effect from 5 to 100 cm/s
Use [2]	Personal sampling in the breathing zone; area sampling on the stand

Mechanical

Collection medium	Sulphuric acid-treated tape behind a diffusion barrier; no glass and no liquid acid
Sliding cover	Pink; open to sample, closed to stop and to ship
Clip	Collar clip
Size	3.4 × 1.1 × 0.35 in (8.6 × 2.8 × 0.89 cm)
Weight	0.38 oz (10.9 g)

Storage and shelf life

Shelf life [1]	Limited; check the expiry date on the packaging
Before use	Below 39.2 °F (4 °C)
After use	At ambient temperature, 72 °F (22 °C), or below 39.2 °F (4 °C); analyse within 3 weeks

Applications

Agriculture	Fertilisers
Janitorial services	Cleaning agents
Food and beverage	Refrigeration and fermentation
Other	Remediation, fuel
Manufacturing	Plastics, explosives, pesticides, textiles, dyes

Sampler

Order code	Description
500-300	UMEx 300 Passive Sampler for Ammonia, 10 per pack

Order from Analyt-MTC with the order code.

Accessories

Treated tape, for quality control only, 25 per pack	P20083
Stand for area sampling	690-302

Notes

1. The sampler has a limited shelf life and must be stored below 39.2 °F (4 °C) before use.
2. The sampler is for single use only; do not reuse it.

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