

Technical Data Sheet : TDS 3A

DIF 900 RTU - ACID GASES

This tube is designed for passively monitoring airborne acid gases such as HF : HCL
HNO₃ . HBr and H₂SO₄



Description : Acrylic Tube fitted with green and white thermoplastic rubber caps. The coloured cap contains the absorbent. A one micron porosity filter is fitted to prevent particulate ingress. The concentrations of Sulfate , Nitrate, Fluoride, Chloride and Bromide ions are quantitatively determined by Ion Chromatography with reference to a calibration curve derived from the analysis of standard solutions.

Suitable for carrying out spatial or localized assessments of Acid Gases in ambient air or workplace monitoring

Tube Dimensions : 71.0mm length x 11.0mm internal diameter

Absorbent : 50% Triethanolamine / Deionised Water

Recommended Exposure Periods : 2 –4 weeks

Uptake Rate : 56 .6cm³ hr⁻¹

Air Velocity : Influence of Wind Speed < 10% between 1.0 and 4.5 msec⁻¹ (* based on original data). No influence when filter is fitted.

Storage : Store in a dark, cool environment preferably between 5-10 degrees centigrade

Shelf Life : 12 weeks from preparation date

Desorption Efficiency : d = 0.98 (determined using N.I.S.T. Standard Analytes)

Analytical Expanded Measurement Uncertainty : +/- 6.9%

L.O.D. : 2.5ppb (6. 55ugm³) over a 2 week exposure period

Relevant Standards : EN 13528 Parts 1-3 : 2002/3 EN 838 :1996

For further Technical and /or Application Information please contact

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