ES Diffusion Tubes

New range of Refillable Diffusion tubes.

ES Diffusion Tubes compliment our existing range of Kin-Tek Trace Source™ permeation tubes, for over 500 compounds.

The new ES Diffusion Tubes offer greater flexibility, for making a wider range of VOCs & SVOCs gas standards. They have been designed to be easily refillable from the screw-capped end of the tube.

Description

ES Diffusion Tubes are used to emit pure component vapour, for making traceable gas mixtures, in the ppm to ppb range.

Each diffusion tube consists of a glass storage area for storing pure compound and a precision capillary, for controlling the vapour flow.

Tubes are used in a thermostatically heated oven and are calibrated by weighing them at intervals over a period of time, using traceable gravimetric calibration.

The output concentration is determined by the following:

1. The tube capillary size and length.
2. The vapour pressure and gas-phase diffusion coefficient of the compound.
3. The temperature of the Vapour Generator oven.

For further information call: Eco Scientific Ltd. +44 1453 885059 or e-mail: sales@eco-scientific.co.uk
Benefits

- Economic advantage: tubes can be refilled over and over again.

- Research & development: ideal when fast analytical method development is required.

- Vapour standards can be produced from liquids & solids with a modest sublimation rate, including SVOC’s

- Can be used for oxygen sensitive compounds, or for unstable compounds with a shorter shelf life.

- Verifiable Accuracy - Traceable Diffusion Tubes can be gravimetrically calibrated.

- ES Diffusion Tubes are available with a standard range of tube lengths, with nominal internal bore sizes. This full range gives an enormous 32000-fold range of emission rates, because of the range of tube lengths and diameters available.

- ES Diffusion Tubes can be used in both fixed and portable Vapour Standards Generators for traceable validation and calibration of both field and laboratory measurements.

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