

Uniphos Charcoal Tube Data Sheet

Conforming to NIOSH Requirements

Charcoal Tube Standard LCT- 100

Type: Flame sealed tube

Specification:

Adsorbate	Organic compounds which can be adsorbed on activated charcoal
Sorption agent	Coconut shell charcoal
Adsorption column	100 mg
Breakthrough column	50 mg
Recommended flow rate	0.01 – 0.2 L/min.
Length of charcoal tube	70 ± 1.0 mm
Outer diameter of charcoal tube	6.0 ± 0.5 mm
Adsorption capacity	20 mg (For Toluene)

Description:

1. The “Uniphos charcoal tube - standard” is used for the measurement of time weighted average (TWA) concentration of some of the organic solvent vapours of non polar compounds like benzene, xylene, toluene etc. present in the working environment/ ambient air.
2. While sampling, the organic vapour in the sample air gets adsorbed on the charcoal tube. The second column viz. breakthrough column helps to verify (after Gas Chromatographic analysis) that no solvent vapours escape the tube during the sampling.
3. Knowing the total volume of air which has passed through the charcoal tube, the concentration of the organic vapour in the air can be determined. This is done by desorbing the adsorbed analyte vapour in a suitable solvent of known volume and known desorption efficiency and Gas Chromatographically determining the concentration.

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