



Empore™

Extraction Disks

Product Information

3M™ EMPORE™ EXTRACTION DISKS WITH ACTIVATED CARBON

General Information

3M™ Empore™ Extraction Disks with Activated Carbon provide a rapid, efficient alternative to liquid/liquid extraction for sample preparation. The disks can be used for purification and concentration of samples prior to analysis. Disk advantages include reduced solvent usage and faster sample processing.

Product Information

Activated carbon extraction disks are designed for the solid phase extraction of highly polar compounds, such as N-nitrosodimethylamine, which are very water soluble; and volatile compounds, such as trihalomethanes, that are not easily captured by other solid phase adsorbents.

Activated carbon provides one of the most aggressive adsorbents available for solid phase extraction. The carbon surface is a complex combination of characteristics, which includes positive and negative charges. When coupled with high surface area, activated carbon provides adsorption and retention of soluble and volatile analytes.

Product Characteristics

- Activated carbon
- Surface area > 1100 m²/gm
- Particle size 10 microns (nominal)
- Particle shape is irregular
- Available in 47 or 90 mm extraction disks
 - 500 mg carbon per 47 mm disk (nominal)
 - 2000 mg carbon per 90 mm disk (nominal)

Applications

- Groundwater extraction of N-nitrosodimethylamine (NDMA)
- Extraction of oxamyl
- Extraction of methamidophos
- Drinking water extraction of trihalomethanes
- Preparation of clean water for purge and trap applications

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