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# Anthracene Based Hyperlinked Polymers Characteristics

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## Editorial Note

The preliminary introduction of synthetic polymers in the 1830's is today reflecting by an inestimable number of structural variations that have finished in key components in products to rally the requirements of contemporary society due to their practical applications in the field of biology, chemistry, and medical field. Hyper cross-linked polymers are of great importance. Synthetic hyper cross-linked polymer will have high surface area with improved pore size and mild operating condition that can be used for amputation of dyes. Hyper crossed linked polymer is synthesized by using Friedel craft reaction used for aromatic network for the formation with highest surface area and microprousity which is suited for the Methane and carbon dioxide even at low pressure and temperature starting from the anthracene and formaldehyde dimethyl acetate (FDA) with different concentration yield highly porous polymers which approximate the separation and Storage for the adsorption of carbon dioxide and methane. This polymer exhibits several elementary properties like that biodegradable property, regeneration property, separation efficiency and high adsorbent capacity. FTIR technique is used to study vibrational energy levels of molecules. As each atom in a molecule or functional group has its unique vibration so they can absorb different wavelength of IR.

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