

## OR-22

## SYNTHESIS OF PAH-CONTAINING COPOLYMERS ON THE BASIS OF ACRYLIC ACID

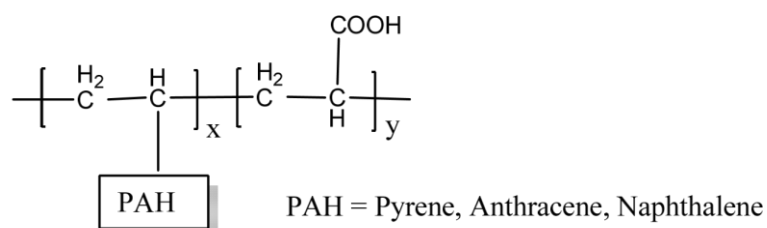
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**Abstract.** Polycyclic aromatic hydrocarbon (PAH) derivatives exhibit unique fluorescence properties including high quantum yield, long fluorescence lifetime and excellent photostability<sup>1</sup>, and can be used in biological fluorescent probe, press-sensitive materials and organic light emitting diodes<sup>2</sup>. In the area of polymer materials, PAH is usually introduced into the polymer to label macromolecular chains, improve polymer fluorescence or modify carbon nanotubes<sup>3</sup>. Herein, we are pleased to report convenient approaches for the synthesis of few PAH containing copolymers on the Basis of acrylic acid (such as pyrene, anthracene and naphthalene). First, we have carried out vinylation of the PAH for the synthesis of starting vinyl PAH. We used various proportion of acrylic acid with respect to the starting vinyl PAH.



**Figure 1.** PAH containing synthesized polymers.

### References

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