

Poly(ethylene terephthalate) as an Insoluble Electron Transfer Photosensitizer

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Poly(ethylene terephthalate) functions as an efficient electron transfer photosensitizer in the cyclodimerization of phenyl vinyl ether.

The use of an immobilized sensitizer for carrying out preparative photosensitized reactions offers clear advantages.^{1,2} Thus the sensitizer can be used in relatively high amounts in order to ensure high light absorption and is then easily eliminated at the end of the reaction by filtration.

Furthermore, the choice of experimental conditions can be extended to solvents in which the corresponding 'molecular' sensitizer is not sufficiently soluble.

Apart from silica gel adsorbed sensitizers, polymers containing the appropriate chromophore have been shown to

