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Kerr constants and spatial structures of certain aryl vinyl compounds of sulfur

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Abstract

1. The aryl group is rotated by an angle of 65-75° with respect to the C-S-C plane in the aryl vinyl sulfones and their β -chloroderivatives containing H, CH₃, CL, and Br substituents; in nitrophenyl vinyl sulfone, the rotation is 4-28°. 2. The unsaturated group in the aryl vinyl sulfones, aryl trans- β -chlorovinyl sulfones, and the aryl trans- β -chlorovinyl sulfides have s-trans conformation, or something close thereto, displacement out of the C-S-C plane being as high as 40°. © 1977 Plenum Publishing Corporation Plenum Publishing Corporation.

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