A Novel Synthesis of Sulfone Systems as Antimicrobial Agents

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The applicability and synthetic potency of novel reagent, 2-aryl-1,1-dicyano-3-(phenylsulfonyl)propenes 3 to develop an expeditious convenient synthetic route of unique polyfunctionally substituted carbocyclic and heterocyclic sulfone systems is reported. Chemical and spectroscopic evidence for the structures of the newly synthesized compounds are described. Some of the obtained compounds were tested for their antimicrobial activity.