I INTRODUCTION

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II PURPOSE & EXPERIMENTAL

Introduction to spectra and purification of reagents

Benzyl p-bromophenyl ketone

p-bromobenzyl phenyl ketone

P-bromophenyl phenyl acetylene

Preparation of (E)- and (Z) -1-p-bromophenyl-2-phenyl-1-p-chlorophenyl thioethylenes (1 and 2) from Benzyl p-bromophenyl ketone

Preparation of (E)- and (Z)-2-p-bromophenyl-1-phenyl-1-p-chlorophenyl thioethylenes (3 and 4), from p-bromobenzyl phenyl ketone

Preparation of (E)- and (Z) -1-p-bromophenyl-2-phenyl-1-p-chlorophenyl thioethylenes (1 and 2) and (E)-and (Z) -2-p-bromo phenyl-1-phenyl-1-p-chlorophenylthio ethylenes (3 and 4) from p-bromo phenyl phenyl acetylene
Oxidation of (E) -1-p-bromophenyl-2-phenyl-1-p-chlorophenyl thioethylene (1) to (E) -1-p-bromophenyl-2-phenyl-1-p-chlorophenylsulphonyl ethylene (5)

Oxidation of (Z) -1-p-bromophenyl-2-phenyl-1-p-chlorophenyl thioethylene (2) to (Z) -1-p-bromophenyl-2-phenyl-1-p-chlorophenylsulphonyl ethylene (6)

Oxidation of (E) -2-p-bromophenyl-1-phenyl-1-p-chlorophenyl thioethylene (3) to (E) -2-p-bromophenyl-1-phenyl-1-p-chlorophenylsulphonyl ethylene (7)

Oxidation of (Z) -2-p-bromophenyl-1-phenyl-1-p-chlorophenyl thioethylene (4) to (Z) -2-p-bromophenyl-1-phenyl-1-p-chlorophenylsulphonyl ethylene (8)

Preparation of (E)- and (Z) -1-bromo-2-p-bromophenyl-1-phenyl-2-p-chlorophenyl thioethylenes (9 and 10) from (E) - or (Z) -1-p-bromophenyl-2-phenyl-1-p-chlorophenylthioethylene (1 or 2)

Preparation of (E) - and (Z) -1-bromo-1-p-bromophenyl-2-phenyl-2-p-chlorophenyl thioethylenes (11 and 12) from (E) - or (Z) -2-p-bromophenyl-1-phenyl-1-p-chlorophenyl thioethylene (3 or 4)

Oxidation of (E) -1-bromo-2-p-bromophenyl-1-phenyl-2-p-chlorophenyl thioethylene (9) to (E) -1-bromo-2-p-bromophenyl-1-phenyl-2-p-chlorophenyl sulphonyl ethylene (14) or (E) -1-bromo-1-p-bromophenyl-2-phenyl-2-p-chlorophenyl thioethylene (11) to (E)-1-bromo-1-p-bromophenyl-2-phenyl-2-p-chlorophenylsulphonyl ethylene (16)

Conversion of (E) -1-bromo-2-p-bromophenyl-1-phenyl-2-p-chlorophenylsulphonyl ethylene (14) to (E) -1-p-bromophenyl-2-phenyl-1-p-chlorophenylsulphonyl-2-p-chlorophenyl thioethylene (18) or Conversion of (E) -1-bromo-1-p-bromophenyl-2-
phenyl-2-\textit{p}-chlorophenylsulphonyl ethylene (16) to (\textit{E}) -2-\textit{p}-bromophenyl-1-phenyl-1-\textit{p}-chlorophenylsulphonyl-2-\textit{p}-chlorophenyl thioethylene (20)

Oxidation of (\textit{E}) -1-\textit{p}-bromophenyl-2-phenyl-1-\textit{p}-chlorophenylsulphonyl-2-\textit{p}-chlorophenyl thioethylene (18) or (\textit{E}) -2-\textit{p}-bromophenyl-1-phenyl-1-\textit{p}-chlorophenyl sulphonyl-2-\textit{p}-chlorophenyl thioethylene (20) to (\textit{E}) -1,2-bis(\textit{p}-chlorophenylsulphonyl)-1-\textit{p}-bromophenyl-2-phenyl ethylene (22)


Oxidation of (\textit{Z})-1-\textit{p}-bromophenyl-2-phenyl-1-\textit{p}-chlorophenylsulphonyl-2-\textit{p}-chlorophenyl thioethylene (17) or (\textit{Z})-2-\textit{p}-bromophenyl-1-phenyl-1-\textit{p}-chlorophenylsulphonyl-2-\textit{p}-chlorophenyl thioethylene (19) to (\textit{Z})-1,2-bis(\textit{p}-chlorophenylsulphonyl)-1-\textit{p}-bromophenyl-2-phenyl ethylene (21)

Preparation of (\textit{E}) – and (\textit{Z}) –1-\textit{p}-bromophenyl-2-phenyl-1-phenylselenyl-2-\textit{p}-chlorophenyl thio ethylene, (23 and 24) from (\textit{E})-1-\textit{p}-bromophenyl-2-phenyl-1-\textit{p}-chlorophenylthio-ethylene (1)
Preparation of (E)– and (Z)– 1-p-bromophenyl-2-phenyl-1-phenylselenyl-2-p-chlorophenylthioethylene (23 and 24) from (Z)-1-p-bromophenyl-2-phenyl-1-p-chlorophenylthioethylene (2) 67

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