

THE OXIDATION AND REDUCTION OF 4-FORMYL- AND 4-ACETYL-3-ARYLSYDNONES

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A convenient method to prepare methyl 3-arylsydnonylacetate(I) from 4-acetyl-3-arylsydnone with thallium(III) nitrate by oxidative rearrangement was investigated.

4-Formyl-3-arylsydnones were reduced by sodium borohydride at room temperature to produce 4-hydroxymethyl-3-arylsydnones(II) in moderate yields (65%-85%), but corresponding 3-aryl-4-sydnonecarboxaldehyde arylhydrazone(III) was obtained by the electrolytic reduction.