

ABSTRACT

PROCESS FOR THE SYNTHESIS OF SULFONYL HALIDES AND SULFONAMIDES FROM SULFONIC ACID SALTS

The present invention provides synthetic processes for the preparation of sulfonyl halides of Formula $\text{Ar}-(\text{R})_2\text{SO}_2\text{X}$ and sulfonamides of Formula $\text{Ar}-(\text{R})_2\text{SO}_2\text{NR}_4\text{R}_5$, where the constituent variables are as defined herein, that are useful as intermediates in the preparation of pharmaceuticals. The sulfonyl halides are prepared by reacting a sulfonic acid salt with a halogen substitution reagent in the presence of a catalytic amount of water and in the presence of a co-catalyst. The so prepared halides can then be further reacted with an amine to obtain the sulfonamides.

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