

[54] PREPARATION OF AROMATIC FLUORO COMPOUNDS

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[57] ABSTRACT

The present invention relates to a process for the preparation of 4,4'-difluorobenzophenone. 4,4'-difluorobenzophenone may be prepared by diazotization of 4,4'-diamino-diphenylmethane in anhydrous or concentrated aqueous hydrogen fluoride, decomposition of the

diazonium fluoride thus produced to yield 4,4'-difluoro-diphenylmethane and oxidation of 4,4'-difluoro-diphenylmethane to yield 4,4'-difluorobenzophenone.

Thus, according to the present invention, there is provided a process for the preparation of 4,4'-difluorobenzophenone which comprises the following steps:

- (1) diazotization of 4,4'-diamino-diphenylmethane in anhydrous or concentrated aqueous hydrogen fluoride to yield a solution of a corresponding diazonium fluoride; and
- (2) (i) thermally decomposing the diazonium fluoride in the solution thus produced to yield 4,4'-difluoro-diphenylmethane and (ii) subsequently oxidizing the 4,4'-difluoro-diphenylmethane to yield 4,4'-difluorobenzophenone.

7 Claims, No Sheets Drawing,

9 Pages Specification

The file of this unexamined application may be inspected and copies thereof may be purchased (849 O.G. 1221, Apr. 9, 1968).