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Xanthynilation of arylamines: synthesis and structure of new reaction products

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Abstract

Three new destinations for the reaction of arylamines with 9*H*-xanthyn-9-ol or perchlorate cantile, consisting in the possibility to simultaneously was observed: 1) the symmetric xanthylium two *ortho*-positions of arylamine with the preservation of a free amino group; 2) *ortho*- and *N*-xanthynilation or 3) *ortho*-xanthynilation and *N*-acetylation. The receive of new connections carried out by two methods: first – xanthynilation *N*- or *ortho*-anilines containing fragment 9*H*-xanthyne, the second synthesis in the system: arylamine – perchlorate cantile or 9*H*-xanthyn-9-ol – solvent.