

CONVERSION OF AZIDOTRIAZOLINES TO TETRAZOLES VIA
DIAZO TRANSFER REACTION

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Reaction of α -styrylazide with NH_4N_3 or HN_3 yields exclusively 5-phenyltetrazole. The HN_3 adds to the olefinic double bond of styrylazide to give the 5-azidotriazoline cycloadduct. The latter undergoes transformation to a tetrazole via elimination of CH_2N_2 followed by an intramolecular cyclization of the imido-yl azide moiety. The reactions with other organic azides as well as the mechanism of this novel transformation are discussed.

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