

NEW RECYCLIZATION REACTION IN A SERIES OF ISOQUINOLINE
DERIVATIVES

Yu. M. Yutilov and N. N. Smolyar

UDC 547.833.5.7'852.7:546.171.5:542.953

We have shown that 4-nitro-1-isoquinolone (Ia) and its N-methyl derivative (Ib) are capable of being converted by reductive recyclization on heating in an excess of hydrazine hydrate (135-140°C, 3-4 h) with the formation of one and the same 4-methyl-1-phthalazone (II) (yield 60-80%). PMR spectrum (CF₃COOH), ppm: 3.11 (3 H, s, 4-CH₃); 8.28-8.88 (4 H, m, C₆H₄). The identity of the base (II) obtained and an authentic sample was established by comparing their IR and PMR spectra and also by the absence of a depression of the melting point of a mixture.

