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1,3-Dipolar Cycloaddition of Four Hydrazonoyl Chlorides to β -Diketones and α,β -Unsaturated Ketones

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The 1,3-dipolar cycloaddition of four hydrazonoyl chloride derivatives with the sodium salt of unsymmetrical β -diketones (benzoylacetone) offers a versatile method for the regioselective synthesis of 2H-pyrazoles in a similar fashion to the cycloaddition of the nitrilimides with α,β -unsaturated ketones and esters; the structures of the prepared isomeric pyrazole and pyrazoline derivatives are established by spectroscopic and chemical methods.