

### 3-(2-卓二唑啉基)-色酮类化合物的合成研究

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**摘要** 报道了取代的邻羟基苯乙酮(1a~1e)经Vilsmeier-Haack反应一步制得3-醛基色酮(2a~2e), 2a~2e与取代的芳酰肼(3a~3c)缩合制得15个酞脲类化合物(4a~4o), 4a~4o在醋酸酐作用下关环得15个3-(2-卓二唑啉基)-色酮(5a~5o), 并通过元素分析, IR, <sup>1</sup>H NMR和MS谱数据确证了上述化合物的结构。

**关键词** [色酮P](#) [恶二唑啉](#) [酰肼P](#) [苯乙酮P](#) [红外分光光度法](#) [质子磁共振谱法](#) [质谱法](#)

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### Synthesis of some substituted 3-(3'-acetyl-5'-aryl-1',3',4'-oxadiazoline-2'-yl)-chromones

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**Abstract** By the Vilsmeier-Haack reaction, chromone-3-carboxaldehydes (2a~2e) were prepared in high yields, which reacted regioselectively with substituted aryl hydrazines (3a~3c) in EtOH containing AcOH at room temperature to give 3-(substituted aryl hydrazone) chromones (4a~4o). 4a~4o could be readily converted to substituted 3-(3'-acetyl-5'-aryl-1,3,4-oxadiazoline-2'-yl)-chromones (5a~5o) in good yields by refluxing with Ac<sub>2</sub>O. Their structures were established by elemental analysis, IR, <sup>1</sup>H NMR and MS spectra.

**Key words** [CHROMONE P](#) [HYDRAZIDE P](#) [ACETOPHENONE P](#) [INFRARED SPECTROPHOTOMETRY](#) [PROTON MAGNETIC RESONANCE SPECTROMETRY](#) [MASS SPECTROGRAPHY](#)

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