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Synthesis, Spectroscopy Properties and Antifungal Activity of New Quinoxaline Derivatives

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ABSTRACT Seven new quinoxaline derivatives **3a-3g** were synthesized through two steps convenient approach. Their structures were confirmed by Fourier transform infrared, proton nuclear magnetic resonance, and high-resolution mass spectrometry. The synthesized compounds **3a-3g** showed good fluorescent intensity in dimethyl sulfoxide. They were also shown to possess good antifungal activities. The structure-activity relationship was studied by density functional theory calculations.

KEYWORDS Quinoxalines, Fluorescent, Antifungal activity, Density functional theory.

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