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Stachydrine and Volatile Isothiocyanates from the Unripe Fruit of Capparis spinosa L.

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Abstract:

The alkaloid stachydrine of the unripe fruit as well as other parts of *Capparis spinosa* var. *mucronifolia* was extracted by 80% methanol, purified by column chromatography and identified by ¹H NMR and IR spectroscopic methods. Volatile isothiocyanates were prepared by hydro-distillation of the autolyzed plant material and studied by GC and GC/MS methods. The volatile oil of the unripe fruit was composed mainly of methyl isothiocyanate (39.2%), isopropyl isothiocyanate (21.4%), and sec-butyl isothiocyanate (6.4%).

Keywords:

[Capparis spinosa](#) , [Capparidaceae](#) , [Stachydrine](#) , [Isothiocyanates](#)

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