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## Phosphorus, Sulfur, and Silicon and the Related Elements

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### Electron Impact Stabilities of Phospholes and Related Compounds and their Relative “Aromaticity”

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# Electron Impact Stabilities of Phospholes and Related Compounds and their Relative "Aromaticity"

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Electron impact mass spectral fragmentation of a number of phosphole, phosphole oxide, phosphole selenide, and phosphole sulfide derivatives has been used as a probe for part of an on-going examination of the inherent stability, or "aromaticity" of these heterocycles. Ion current measurements and large fragment fragmentation patterns obtained from these compounds as well as from carbocyclic, and other heterocyclic analogs will be presented as one approach to determining the relative stabilities of these systems. The stability patterns obtained appear to be consistent with the relative stabilities established by other methods.