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# A Polarized Infrared and X-ray Study of Lysine-Vermiculite

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**Abstract:** Lysine and vermiculite form a stable, ordered, interlamellar complex which has a well defined superlattice structure with respect to the *ab*-plane of vermiculite. The lysine molecules lie at a low angle to the silicate surfaces and establish a double layer network between such surfaces. I.R. and chemical data for the complex are given. The possible role of hydrogen bonds in linking the system together is considered.

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