title: Infinite volume limit for the dipole gas
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Frequently in renormalization group analyses one states results in terms of bounds uniform in the volume, or maybe as a formal infinite volume limit. But the actual infinite volume limit is not demonstrated, and in fact it is not so easy to establish. We report on a technique for establishing such limits. The ideas are demonstrated by a analysis of the classical dilute dipole gas in dimension three or larger. We use renormalization group methods recently developed by Brydges and Slade.