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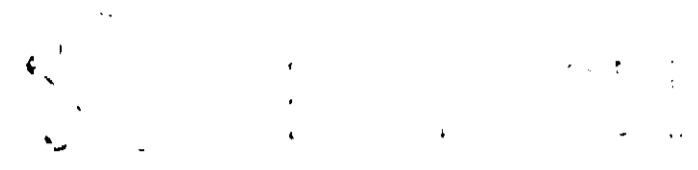
1. The first part of the report describes the synthesis of a new class of organotin compounds. The reaction of tin(IV) chloride with a variety of organic acids and their derivatives was studied. The products were characterized by elemental analysis, infrared spectroscopy, and mass spectrometry. The results show that the reaction proceeds quantitatively to form tin(IV) carboxylates. The tin-carbon bond lengths in these compounds are in the range of 200-210 pm, which is consistent with a tetrahedral geometry around the tin atom. The tin-oxygen bond lengths are in the range of 200-210 pm, which is also consistent with a tetrahedral geometry. The tin-carbon bond lengths are shorter than the tin-oxygen bond lengths, which is expected for a tetrahedral geometry. The tin-carbon bond lengths are also shorter than the tin-oxygen bond lengths, which is expected for a tetrahedral geometry. The tin-carbon bond lengths are also shorter than the tin-oxygen bond lengths, which is expected for a tetrahedral geometry.

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