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Structure and molecular lability of N-(thio)phosphoryl(thio)amides: XL. Interpretation of the N-benzoyl(acetyl)amidothiophosphate→ N-thiobenzoyl(acetyl)amidophosphate rearrangement by means of 1H, 13C, and 31P NMR spectroscopy

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Abstract

The N-benzoyl(acetyl)amidothiophosphate→ N-thiobenzoyl(acetyl)amidophosphate in CCl4 and toluene-d 8 solutions was studied by means of 1H, 13C, and 31P NMR spectroscopy. The transformation of one amide form to the other is accompanied by intramolecular migrations of the amide proton and (thio)phosphoryl group and is a complex equilibrium of two dynamic systems.

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