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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-d₈ 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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