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Imides of 2-Trifluoroacetylphenol and other Trifluoracetic acid Esters: Novel Reactions with Phosphorus(III) Derivates

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Imides of 2-Trifluoroacetylphenol and other Trifluoracetic acid Esters: Novel Reactions with Phosphorus(III) Derivates

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The imido derivates of 2-trifluoroacetylphenol, 1 (R^1 =H, Me, iPr) react with the isocyanatophosphites ($R^2O)_2PNCO$, 2 (R^2 =Et, R^2 - R^2 =CMe $_2$ -CMe $_2$) to yield the bicyclic compounds 3, wheras in case of 1 (R^1 =(CH $_2$) $_2NMe_2$) the $\lambda^3\sigma^3P$ compounds 4 are found. The phosphorus(III) chlorides R^3PCl_2 (R^3 =Ph, OEt) and 1 (R^1 =H, Me) give rise to furnish the tricyclic phosphoranes 5. However with 1 (R^1 =iPr) phosphite 6 is obtained, which adds hexafluoracetone to give the 1,3,2 $\lambda^5\sigma^5$ -dioxaphospholane 7. 2-(Trifluoracetoxy)pyridine 8 reacts with Tris(trimethylsilyl)phosphite to yield the bis(phosphonate) 10. Some molecular structures are discussed on the basis of x-ray diffraction results.