

Synthesis and Single Crystal X-Ray Structure of 2-(1,3,4-Oxadiazol-2-yl)aniline

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Reaction of 2-aminobenzoic acid with (*N*-isocyanimino)triphenylphosphorane proceeds smoothly at r. t. to afford 2-(1,3,4-oxadiazol-2-yl)aniline in high yield. The structure of this compound was confirmed by IR, ¹H, and ¹³C NMR spectroscopy, mass spectrometry, and single crystal X-ray structure determination. The X-ray structural analysis of the product indicated that its aromatic rings are approximately co-planar.

Key words: 2-Aminobenzoic Acid, (*N*-Isocyanimino)triphenylphosphorane, 2-(1,3,4-Oxadiazol-2-yl)aniline, *Aza*-Wittig Reaction, Crystal Structure Determination