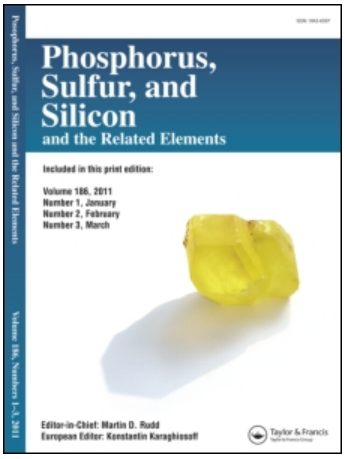

Phosphorus, Sulfur, and Silicon and the Related Elements

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Polymer Supported Synthesis of Deoxyoligonucleotides using In Situ Prepared Deoxynucleoside 2-Cyanoethyl Phosphoramidites

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Polymer Supported Synthesis of Deoxyoligonucleotides using <u>In Situ</u> Prepared Deoxynucleoside 2-Cyanoethyl Phosphoramidites

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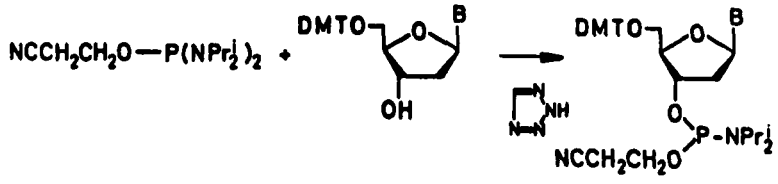
2-Cyanoethyl bis(diisopropylamino)phosphorodiamidite (<u>1</u>) is a stable and easily obtainable compound[1] which, when activated with 0.5 eq. tetrazole, gives solutions of deoxyribonucleoside 2-cyanoethyl phosphoramidites (<u>2</u>) useful for the synthesis of deoxyoligonucleotides.[2] Our results applying these <u>in-situ</u> prepared phosphoramidites for polymer-supported syntheses of a variety of deoxyoligonucleotides (DNA fragments) will be presented.



<u>1</u> <u>2</u>

1. J. Nielsen, J. E. Marugg, J. H. van Boom, J. Honnens, M. Taagaard, and O. Dahl, J. Chem. Res. (S) 1986, 26.
2. Preliminary report: J. Nielsen, J. E. Marugg, M. Taagaard, J. H. van Boom, and O. Dahl, Recl. Trav. Chim. Pays-Bas <u>105</u>, 33 (1986).