# **H-Phosphonates**

#### **H-Phosphonate Monomers**

Glen Research H-Phosphonates are analyzed by HPLC and are synthesis-tested.  $\hat{A}$  H-Phosphonates are especially useful for the preparation of modified internucleotide linkages which are unattainable by phosphoramidite chemistry.  $\hat{A}$  The most popular application is the preparation of radiolabeled phosphorothioates, since the sulfurization reaction is carried out off the synthesizer.  $\hat{A}$ 

#### dA-H-Phosphonate: Cat. No.: 10-1200-xx

### dC-H-Phosphonate: Cat. No.: 10-1210-xx

## dG-H-Phosphonate:Cat. No.: 10-1220-xx

### dT-H-Phosphonate:Cat. No.: 10-1230-xx

#### **H-Phosphonate Reagents**

Our H-Phosphonate solvents and reagents have been discontinued. H-Phosphonate reagents are easily prepared using high purity products and the formulations shown below.

1-Adamantanecarbonyl chloride is available from Aldrich, Catalog No. 117722. Dilute to 0.1M.  $\hat{A} \hat{A}$  (Activator for monomers and capping reagent)

Acetonitrile/Pyridine (50:50), anhydrous  $\hat{A} \hat{A}$  (Monomer Diluent)

Acetonitrile/Pyridine (95:5), anhydrous  $\hat{A} \hat{A}$  (Activator Diluent)

1% Isopropyl Phosphite in Acetonitrile/Pyridine (50:50)  $\hat{A} \hat{A}$  (Capping Reagent)

Acetonitrile/Pyridine (50:50) Â (Neutralizer and Wash Solvent)

4% I2 in Pyridine/H2O/THF (10:10:80) THF/H2O/TEA (80:10:10) Â (Both reagents are required for oxidation of H-phosphonate linkages)