Butafosfan
Item No. 18613

CAS Registry No.: 17316-67-5
Formal Name: P-[1-(butylamino)-1-methylethyl]-phosphinic acid
MF: C₇H₁₈NO₂P
FW: 179.2
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid

**Laboratory Procedures**

For long term storage, we suggest that butafosfan be stored as supplied at -20°C. It should be stable for at least two years.

Butafosfan is supplied as a crystalline solid. A stock solution may be made by dissolving the butafosfan in the solvent of choice. Butafosfan is soluble in organic solvents such as ethanol, which should be purged with an inert gas. The solubility of butafosfan in ethanol is approximately 1 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of butafosfan can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of butafosfan in PBS, pH 7.2, is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

**Description**

Butafosfan is an organic phosphorus supplement that is given, most commonly with cyanocobalamin, to cattle, swine, horses, and poultry for the prevention or treatment of deficiencies. When given with cyanocobalamin, butafosfan alters lipid metabolism, serving to decrease the prevalence of subclinical ketosis.

**References**