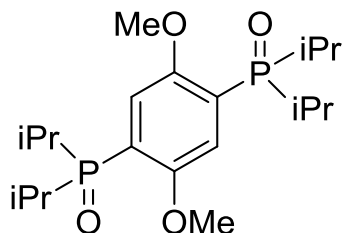


Catalog #15-1365 (2,5-Dimethoxy-1,4-phenylene)bis(di-*i*-propylphosphine oxide), 99+% Redox shuttle
ANL-RS5



Technical Notes:

Redox Shuttles for Lithium Ion Batteries

1. Provides a long term intrinsic overcharge protection of lithium-ion batteries.
2. Maintains the safe operation of lithium-ion batteries.
3. Highly-soluble in conventional non-aqueous, carbonate based electrolytes.
4. Increases battery long-term stability and oxidation potential.

Electrochemical Properties:

1. ANL-RS5 (abbreviated BPDB) exhibits a reversible redox potential of about 4.5V vs Li/Li⁺ (1.2 M LiPF₆ in 3:7 wt/wt mixture of ethylene carbonate and ethyl methyl carbonate). [1]
2. Provides stable overcharge protection for 4V MCMB (mesocarbon microbead)/LMO (LiMn₂O₄) cells delivering 95 cycles of 100% overcharge at room temperature [1]

Reference:

1. *J. Mater. Chem., A*, **2015**, 3, 10710.