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-CERTIFICATE OF ANALYSIS-

Product: (R)-(+)-2,2'-Bis(diphenylphosphino)-[1,1']-binaphthyl

Code Number: OR43631

CAS Number: 76189-55-4

Formula: C₄₄H₃₂P₂

Batch Number: AS516379

Appearance: White powder

Melting Point: 242.1 - 243.4 degrees C

Identity: IR & 1H NMR conform to structure

Verified by: David Parton

Signed: --Digital document, no signature required--