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-CERTIFICATE OF ANALYSIS-

Product: (R)-1,1'-Binaphthyl-2,2'-diyl bis(trifluoromethanesulphonate)

Code Number: PC0614

CAS Number: 126613-06-7

Formula: C₂₂H₁₂F₆O₆S₂

Batch Number: AS508535

Appearance: Yellow solid

Purity 98% (NMR)

Optical Rotation: -141.23(C=1 CHCL₃)

Identity: NMR conforms to structure

Verified by: David Parton

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