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-CERTIFICATE OF ANALYSIS-

Product: Heptafluorobutanoic acid

Code Number: PC4450

CAS Number: 375-22-4

Formula: C4HF7O2

Batch Number: AS516592

Appearance: Clear, Colourless liquid

Water content: 0.0 by KF

Purity by GC: 99.8% by area

Titration: 99.7% (0.1M NaOH)

Identity: 1H + 19F NMR Conforms

to structure at 98.5%

(CDCl3)

Verified by: David Parton

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