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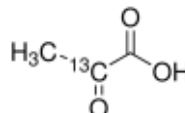
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Certificate of Analysis

Product Name:

Pyruvic-2-¹³C acid (free acid) - 99 atom % ¹³C, 95% (CP)

Product Number: 692670
Batch Number: MBBB4244V
Brand: ALDRICH
CAS Number: 70155-58-7
Formula: 13CC2H4O3
Formula Weight: 89.05 g/mol
Storage Temperature: Store at -20 °C
Quality Release Date: 10 DEC 2014



Test	Specification	Result
Appearance (Clarity)	Clear	Clear
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Purity (HPLC)	≥ 99 %	100 %
Proton NMR Spectrum	Conforms	Conforms
¹³ C NMR Spectrum	Conforms	Conforms
LCMS	Conforms to Structure	Conforms
¹³ C Enrichment	≥ 99 %	99 %

Sudhakar Parthasarathy, Scientist

Quality Control

Miamisburg, Ohio US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.