

3050 Spruce Street, Saint Louis, MO 63103, USA

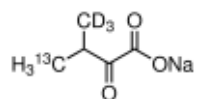
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## Product Specification

Product Name:  
2-Keto-3-(methyl-d<sub>3</sub>)-butyric acid-4-<sup>13</sup>C sodium salt - 98 atom % D, 99 atom % <sup>13</sup>C

Product Number: **594903**

MDL: MFCD05664327  
Formula:  $^{13}\text{C}_4\text{D}_3\text{H}_4\text{NaO}_3$   
Formula Weight: 142.11 g/mol



TEST	Specification
Appearance (Color)	White
Appearance (Form)	Solid
Water (by Karl Fischer)	≤ 1.0 %
Proton NMR Spectrum	Conforms
Deuterium NMR Spectrum	Conforms
Carbon NMR Spectrum	Conforms
IC	≥ 99.0 %
D Enrichment	≥ 98 %
<sup>13</sup> C Enrichment	≥ 99 %
Melting Point	Conforms

Specification: PRD.0.ZQ5.10000102617

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](http://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.

