



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-265935
Lot Number: SAMPLE
Product Name: 2,2-Difluorosuccinic acid
CAS Number: 665-31-6
Molecular Formula: $C_4H_4F_2O_4$
Molecular Weight: 154.07

Test	Specification	Result
Appearance	White to brown colored crystalline solid or powder	Light brown colored powder
Identification (1H -NMR)	Consistent with structure	Complies
Identification (^{13}C -NMR)	Consistent with structure	Complies
Identification (^{19}F -NMR)	Consistent with structure	Complies
Purity (1H -NMR)	> 95%	Complies
Purity (Titration)	94% - 106% (except acid)	94.8%
Melting Point	143 - 146 °C	141 - 144 °C
Solution (Clarity)	Forms a clear colorless to clear brown colored solution in methanol, no particulates	Forms a clear light brown solution in methanol, no particulates
Water Content (KF)	< 2.5%	0.2%

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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