



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-253302  
Lot Number: SAMPLE  
Product Name: (+)-Potassium DS-threo-isocitrate monobasic  
CAS Number: 20226-99-7  
Molecular Formula:  $C_6H_7O_7 \cdot K$   
Molecular Weight: 230.21

Test	Specification	Result
Appearance (Color)	White to almost white	Almost white
Appearance (Form)	Powder to powder with lumps	Powder
Identification ( $^1H$ -NMR)	Consistent with structure	Complies
Purity (Nonaqueous Titration)	$\geq 98.0\%$ ( $HClO_4$ , 0.1 M)	99.8%
Melting Point	180 - 190 °C (dec.)	183 °C (dec.)
Specific Rotation ( $\alpha_{20/D}$ )	$20.5 \pm 1.0^\circ$ (c = 2, in water)	21.4°
Carbon Content	31.30%	31.27%
Hydrogen Content	3.06%	3.18%

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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