



National Institute of Standards & Technology

Certificate of Analysis

Standard Reference Material 99a

Soda Feldspar

This Standard Reference Material (SRM) is intended for use in the determination of constituent elements in feldspar or material of similar matrix. SRM 99a is powdered soda feldspar that was sieved to -200 mesh ($75\mu\text{m}$) and blended to ensure homogeneity. The feldspar material came from Kona, North Carolina. Kona is within the Spruce Pine pegmatite district which has consistently been the principal producer of mica and feldspar.

The certified constituent elements of SRM 99a are given below and are based on measurements at NIST and a number of industrial laboratories. All values are based on samples that were dried for 2 hours at $105\text{ }^{\circ}\text{C}$.

Constituents	Certified Value ¹ percent by weight
SiO ₂	65.2 ²
Al ₂ O ₃	20.5
Fe ₂ O ₃	0.065
TiO ₂	0.007
CaO	2.14
BaO	0.26
MgO	0.02
Na ₂ O	6.2
K ₂ O	5.2
P ₂ O ₅	0.02
Loss on Ignition	0.26

¹ The certified value listed for a constituent is the present best estimate of the "true" value. The certified values are given as the oxide on an equivalent weight basis and assume stoichiometry in the form of the compounds listed.

² The estimated uncertainty of a certified value is expressed in significant digits. The certified value listed is not expected to deviate from the true value by more than ± 1 in the last significant figure reported; for a subscript figure the deviation is not expected to be more than ± 5 .

The original technical and support aspects involved in the preparation, certification, and issuance of this Standard Reference Material were performed under the direction of J.L. Hague of the Standard Reference Materials Program (formerly Office of Standard Reference Materials).

The revision and update of this Certificate of Analysis was coordinated through the Standard Reference Materials Program by T.E. Gills.

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Standard Reference Materials Program