



## Elemental Impurities – Sodium Carbonate, Anhydrous, NF (CAT# SO147)

To Whom It May Concern:

The above material complies with the USP<232>, <233> Elemental Impurities and the ICH Q3D Elemental Impurities Guideline. The following Elemental Impurities are likely to be present:

Elemental Impurity	Class	Expected Concentration
Arsenic (As)	1	$\leq 0.14\text{ppm}$
Lead (Pb)	1	$\leq 0.5\text{ppm}$
Nickel (Ni)	2A	$\leq 0.04\text{ppm}$
Chromium (Cr)	3	$\leq 0.06\text{ppm}$
Molybdenum (Mo)	3	$\leq 0.27\text{ppm}$

Other Elemental Impurities considered by USP<232>, <233> and ICH Q3D, which are not addressed in the above-mentioned table, are not likely to be present. These substances are not used in the production process, are not intentionally added, or known to be present in the above-mentioned material.

This information is subject to change and is intended for risk assessment only. It is the responsibility of the end user to evaluate suitability of any chemical for the intended use, as well as to assess compound-specific limits of daily intake of metal impurities. For lot-specific information, please refer to the respective Certificate of Analysis.

If you have any further questions, please contact the Spectrum technical department via email at:

[technicalservices@spectrumchemical.com](mailto:technicalservices@spectrumchemical.com)

Sincerely,

Technical Service

Spectrum Chemical Mfg. Corp.

This document has been produced electronically and is valid without a signature.

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