

Reference Material Documentation

Zinc

Element	Melting Point (°C/K)	ΔH_f (J/g)
Zinc (Zn)	419.527/692.68 ¹	107.4 ¹

Trade Name: Zinc Reference Standard

EA Labs P/N: NN-RSZN01

CAS#: 7440-66-6

Engineering Analytics Laboratories provides the above 99.999% pure material as a calibration standard with the intended use of determining the melting point and Enthalpy of Fusion by Differential Scanning Calorimetry or Differential Thermal Analysis.

Safety:

Under the Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1200, this material does not constitute a physical or health hazard. Dispose of this material per local, State, or Federal guidelines. Please see an appropriate industry MSDS for additional safety or handling information.

Made in the USA Statement:

EA Labs has verified, based on the reporting of suppliers, that this product meets the FTC's standards for the "Made in America" statement due to the majority price being in US dollars and paid to US manufacturers or producers. An estimated 97+% of the unit price is maintained within the USA, and provides for the employment of 3+ individuals across 3 US based companies.

References:

1. R. Sabbah et al., *Thermochimica Acta*, 331 (1999) pg. 123 - 126

Valid references utilized for the above properties determined and verified by Engineering Analytics Laboratories (EA Labs). Please direct any questions regarding the accuracy or verification of these properties to EA Labs at www.EngineeringAnalytics.us.

Specific Material Information

The following information is specific to the ordered item. Please retain a copy of this documentation for reference.

Information	Data
Product Name (Purity):	Zinc (99.999%)
EA Labs Lot Number:	ZN1801
Material Dimensions / Mass:	5 mm x 1.76 mm x 0.25 mm (l x w x h) / 400.3 mg
Intended Use:	Melting Point
Literature Melting Point:	419.527 °C ¹
Additional Use:	$\Delta H_f = 107.4 \text{ J/g}^1$
Stability:	Single Use. Not intended for multiple uses.

Spectrographic Analysis

The following information is reported from the Certificate of Analysis provided by the manufacturer of the material. EA Labs is not responsible for the determination or validation of this data.

Element	ppm / %
Zinc (Zn)	99.999 %
Antimony (Sb)	1.9
Lead (Pb)	1.7
Tungsten (W)	0.8
Strontium (Sr)	< 0.1
Titanium (Ti)	< 0.1

Please contact Engineering Analytics Laboratories at EngAnLab@gmail.com with questions, clarifications, or concerns.