

Alpha Resources, Inc. Certificate Of Analysis

AR-3034

NITROGEN IN CRUDE OIL STANDARD

LOT #034494

LID ID 3034

PARTS PER MILLION NITROGEN = 1641

STANDARD DEVIATION = 132

Round Robin Summary

LAB	PPM NITROGEN	METHOD
1	1753	1
2	1641	1
3	1549	1
4	1733	2
5	1529	1

Methods

1. ASTM D 4629
2. ASTM D 3228

Notes:

Before use, the contents of the bottle should be mixed through vigorous shaking. The contents should not be exposed to air for a lengthy period of time.

Normal ASTM procedures should be employed when using this standard. This includes using the *reproducibility* and *repeatability* factors. Use the reproducibility factor when establishing the first set of data, and then establish an internal repeatability factor as your guideline.

The statistical analysis of the certification was performed by D.M. Reasons at Alpha Resources.

The overall direction and coordination of the analytical measurements leading to certification were performed by D.M. Reasons at Alpha Resources.

Remedies for any claimed defect in this product will be limited to product replacement or refund of the purchase price. In no event shall Alpha Resources be liable for incidental or consequential damages.

This is a certified reference material (CRM) and should be verified, prior to use, against a primary standard material provided by a governing agency such as N.I.S.T., when available.

EXPIRATION DATE

THIS CRM IS VALID FOR TWO YEARS FROM THE DATE OF OPENING



P.O Box 199 3090 Johnson Road Stevensville, MI 49127 Phone (269) 465-5559 Fax (269) 465-3629

www.alpharesources.com

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