

# Alpha Resources, Inc.

## Certificate Of Analysis

CRUDE OIL STANDARD

CRUDE OIL STANDARD

AR-2946  
LOT 946100  
Lid I.D. 946100

WEIGHT PERCENT SULFUR =0.0720  
STANDARD DEVIATION= 0.0034

METHODS:  
ASTM D-4294  
ASTM D-2622

The above value represents the mean from the data, as reported by Alpha Resources' round robin program.

### NOTES:

Before use, the contents of the bottle should be mixed though 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, and overall coordination leading to certification, was performed by D. M. Reasons at Alpha Resources.

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.

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.

### 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](http://www.alpharesources.com)

Page 1 Of 1