

# Alpha Resources, Inc. Certificate Of Analysis

AR-000

## PARAFFIN OIL STANDARD

LOT # 001006

LID # 001006

Weight Percent Carbon	=	85.83
Standard Deviation *	=	1.78
Weight Percent Hydrogen	=	13.80
Standard Deviation	=	0.82
Weight Percent Nitrogen	=	0.000
Standard Deviation	<	1 ug/g
Weight Percent Sulfur	=	0.0000
Standard Deviation	<	1 ug/g
Gross BTU/Pound	=	19,603
Standard Deviation	=	85

### Methods:

ASTM D 240    ASTM D 2622  
ASTM D 4629    ASTM D 5291  
ASTM D 5453    ASTM D 5762

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

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 material used in production of this standard was sampled in accordance with ARI 031. The above values relate only to the material used to produce this standard.

The overall direction and coordination of the analytical measurements leading to certification were performed by J.R. Shingledecker 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 is traceable to the above-mentioned standards. For good laboratory practice it is recommended that all standards be verified prior to use.

### EXPIRATION DATE

**THIS CRM IS VALID FOR TWO YEARS FROM THE DATE OF PURCHASE WHICH  
APPEARS ON THE BOTTLE**

*J.R. Shingledecker*

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

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