

# Alpha Resources, Inc.

## Certificate Of Analysis

SULFUR IN GASOLINE

AR-3004

LOT# 041015

LID# 041015

WEIGHT PERCENT SULFUR = 0.0308

EXPANDED UNCERTAINTY= 0.0016

Methods used: ASTM D 4294-10

This standard was produced gravimetrically using high purity materials with balances calibrated and checked by precision NIST traceable weights. The precision value represents the expanded degree of uncertainty based on errors from analytical data provided by the above methods, and weighing of raw materials at a 95% confidence level ( $k=2$ ). When necessary, professional judgment is applied toward consideration of data and statistical information. The statistical analysis and the overall direction and coordination of the analytical measurements leading to certification were performed by K.E. Dyer at Alpha Resources. Normal ASTM procedures should be employed when using this standard. This includes using the *reproducibility* and *repeatability* factors for the ASTM method you wish to employ.

#### Notes:

The raw material used for the production of this standard was evaluated and identified in accordance with ARI 041. The samples for round robin testing were selected in accordance with ARI 031. The above values relate only to the material used to produce this standard.

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. Keep tightly sealed and store promptly in a refrigerator. This bottle contains 100ml nominal gasoline. This reference was prepared in accordance to ISO Guide 34 and ISO Guide 31.

This is a prepared, and analytically verified Certified Reference Material (working standard). For good laboratory practice it is recommended that all standards be verified prior to use. 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 ONE YEAR FROM THE DATE OF OPENING

CERTIFIED November 4, 2015

