

Certificate of Analysis

Control Standard TOC/ROC/TIC to DIN

19539 Cat No. AEB2293 – Certificate no.

309445

General

This Analytical Standard (OAS) consists of a homogenous batch of synthetically prepared material for use as a routine working laboratory control standard in the determination of TOC (total organic carbon), ROC (residual oxidizable carbon) and TIC (total inorganic carbon).

The analyses have been conducted according to DIN 19539 whereby:

TOC = TOC₄₀₀ Organic carbon measured up to 400°C

ROC Residual oxidizable carbon

TIC = TIC₉₀₀ Inorganic carbon measured 600 to 900°C

Values and Uncertainty

This synthetic material has been prepared gravimetrically. All standard components have been pre-verified before use.

Results shown are derived from an Interlaboratory (round-robin) exercise using equipment from a variety of manufacturers.

The uncertainty is expressed as k=1, 68% confidence limits (one standard deviation).

	TOC	ROC	TIC	TC (sum)
Gravimetric Preparation	2.00	1.80	2.00	5.80
Mean Found Value (% w/w)		1.69	1.93	5.85
2.24 S.D.	(%)	0.21	0.05	0.05
0.17				

Expiration

The values quoted are valid until **1st April 2029** within the measurement uncertainties specified. Should the sample become contaminated or altered in any way, the certification will be void.

Storage and use

This OAS should be stored between 20°C to 25°C and should be kept tightly sealed away from light and moisture.

Information

The technical aspects involved in the preparation, certification and issuance of this (In)Organic Analytical Standard (IAS/OAS) were carried out on behalf of Alpha Resources LLC, 3090 Johnson Rd. Stevensville, MI 49127 U.S.A. 269-465-5559
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for and on behalf of Alpha Resources LLC

Jon Davies

