

Manufactured by Sekisui  
Marketed by Celanese Ltd.

# SEKISUI

# APPROVED

7/6/18 ZC

Lot # 248187001

BRENNTAG MID-SOUTH  
1405 HIGHWAY 136 WEST  
HENDERSON KY 42420  
USA

Calvert City, KY  
Sekisui Specialty Chemicals America, LLC  
246 Johnson Riley Rd  
CALVERT CITY KY 42029-0970  
USA

e-mail: zzdaltraffic@celanese.com

## Certificate of Analysis / PQR

Customer no.:	2191361	Date of Certificate:	05 Jul 2018
Sold-To PO:	4501905453	Delivery item/date:	80179381 000010 / 03 Jul 2018
Product:	* Glacial Acetic Acid, Food/Kosher Grade	Delivery Item Qty:	43,500.000 LB
Product no.:	51002216	Order Item /date:	55051 000010 / 25 Jun 2018
		Container no.:	24950

Lot no.: 50000032168

Characteristic/properties	Method	UoM	Value	Limit
Assay by Titration	FCC	%(m)	99.7	99.5 - 100.5
Identification (1)	FCC		Pass	
Solidification Point, min.	FCC	°C	16.6	min. 15.6
Non-Volatile Residue, max.	FCC	%(m)	0.000	max. 0.005
Lead, max. (1), (2)	FCC	ppm(m)	< 0.0	max. 0.5
Readily Oxidizable Substances	FCC		Pass	

(1) Test results provided are based on non-routine testing. (2) Unit of measure ppm(m) equals mg/kg.

The product shall strictly conform to its respective Specification(s), and is manufactured, handled, labeled, sold and/or delivered in compliance with the Good Manufacturing Practices for food grade products under the FDA Food Modernization Act (FSMA), and purity specifications published by the Food Chemical Codex (FCC) for Glacial Acetic Acid. FCC analytical methods or equivalent validated methods are used. The shelf life of the product is one year from date of delivery, provided that it is handled and stored under the recommended conditions. When the product exceeds its shelf life, or storage deviates from the recommended conditions, the owner of the product is responsible to verify its quality status and to make decisions on its suitability for the intended end-uses.

The Certificate of Analysis applies only to the above-mentioned lot. It is not valid for any subsequent re-packaged, blended or formulated product.

Rene Tucker  
Quality Manager

This report is electronically produced and is valid without signature. The above particulars do not release the customer from the obligation to carry out an inspection of goods received. The values shown represent testing performed on bulk material and are not shipment-specific. If you have any question about the quality or weight of this shipment, please contact your customer service representative.

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IMPORTANT: All information provided is believed to be accurate and complete. The data provided is representative of the product quality on the date of analysis for the lot number indicated. This certificate of analysis may not include all of the constituents of the product. Persons using this information should make their own determination regarding its suitability for their particular application. This certificate of analysis shall not in any way limit or preclude the operation and effect of the applicable terms and conditions of sale.