

BASF CORPORATION



Certificate of Analysis

Customer:	Product Number	: 50433098
BRENNTAG SOUTHEAST INC	Product Name	: <u>Formic acid 95%</u>
2000 E PETTIGREW ST	Vehicle	: 9468
DURHAM NC 27703-4049	Batch/Lot	: GF1720204
USA	Manuf. Date	: Jul-21-2017
Attention:	Shipped Date	:
FAX:	Shipped Quantity	: 44,860 lb.
Cust Prod:	Delivery Date	:
Cust Prod Name:	Order Number	:
Cust P.O.:	Delivery Note	: 189136082
Cust P.O. Line:		

Characteristic	Result	UOM	---Specification---		Test Method
			Minimum	Maximum	
Assay	94.7	Weight %	94.0	96.0	ST110800
Water	5.3	Weight %	4.0	6.0	ST110803
Color, APHA	5			50	ST118415
Expiration Date	-	07/21/2019			

Comments:

The following are typical values and test methods:

- \* Description: Formic Acid is a colorless to yellowish liquid, with a pungent odor.
- \* Acetic Acid - <= 50 ppm Gas Chromatography (GC)
- \* Sulphate - <= 1 ppm Ion Chromatography (IC)
- \* Chloride - <= 1 ppm Titrimetric
- \* Iron - <= 1 ppm Inductively Coupled Plasma (ICP)
- \* Other Heavy Metals - <= 1 ppm Inductively Coupled Plasma (ICP)
- \* Non-volatile Residue - <= 10 ppm Gravimetric
- \* Manufacturing site: BASF Geismar, LA

**Lot#**  
**217454017205001**

The information contained herein is based either on analytical tests of samples or on statistical process data; it is intended solely for purposes of comparison with the established specifications for the product. Warranties of the product are exclusively as set forth in the applicable contract documents.

THIS CERTIFICATE OF ANALYSIS HAS BEEN PRODUCED ELECTRONICALLY AND IS VALID WITHOUT A SIGNATURE.

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.