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Certificate of Analysis

BASF Corporation

Please note that the certificates of analysis are also conveniently available online and around the clock at www.worldaccount.basf.com

BRENNTAG MIDSOUTH INC

317 WAUHATCHIE PIKE

37419-2328 CHATTANOOGA
HAMILTON
USA

2018-04-30

BASF CORPORATION

Certificate No 8328

Certificate of Analysis according to DIN 55350-18-4.2.2

Brenntag Lot# 235281088136

Formic Acid 95%

Purchase Order/Customer Product#
771517

Material	50451057
Order	0115880519 000020
Delivery	0129037768 000010
Lot	OF1805201
Lot/Qty	180100.000 LB
Total	180100.000 LB
Transport	DBCX201547

Characteristic/Method	UOM	Result	Specification
ASSAY, wt%	%	94.79	94.00-96.00
WATER, WT %	%	0.2	0.2-1.0
COLOR, Pt-Co Units		2.0	<=50.0
NON-VOLATILES, wt%	Weight %		

Manufacturing Date: 02/26/2018

The following are typical values and test methods:

*Description: Formic acid is a colorless to yellowish liquid with a pungent odor

*Acetic Acid: - <=500 ppm ISO 731/VIII
*Sulphate - <= 1 ppm ISO 731/V
*Chloride - <=1 ppm ISO 731/IV
*Iron - 1 ppm Atomic Spectrometry
*Other Heavy Metals - <=1 ppm Atomic Spectrometry
*Residue on evaporation - <= 20ppm DIN 53 172
*manufacturing site: BASF Germany

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

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.

This is a computer-generated document. No signature is required.

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.