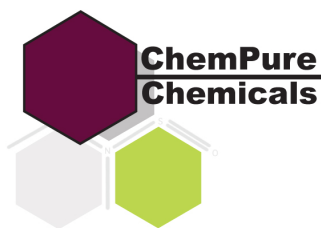


Certificate of Analysis



PRODUCT NAME: **Formic Acid, 98.0-100%**
ACS/Reagent

CHEMICAL FORMULA: CH_2O_2

Cust-Product Code: CP-B0615
EC Number: 200-579-1
Lot Number: K48893964CP
F.W.: 46.0300
CAS No: 64-18-6
Density: 1.22

ANALYTICAL RESULTS		
ITEM	SPECIFICATIONS	ANALYSIS
Assay (CH_2O_2)	>98.0%	99.3%
Acetic acid (CH_3COOH)	500 ppm max.	<500 ppm
Color (APHA)	10 max. Hazen	<10 max. Hazen
Evaporation Residue	10 ppm max.	<10 ppm
Dilution test	Passes Test	Passes Test
Chloride (Cl)	5 ppm max.	<5 ppm
Sulfite (SO_3)	10 ppm max.	<10 ppm
Sulfate (SO_4)	5 ppm max.	<5 ppm
Heavy Metals (as Pb)	10 ppm max.	<10 ppm
Aluminum (Al)	0.050 ppm max.	<0.020 ppm
Barium (Ba)	0.050 ppm max.	<0.020 ppm
Beryllium (Be)	0.020 ppm max.	<0.010 ppm
Bismuth (Bi)	0.10 ppm max.	<0.05 ppm
Cadmium (Cd)	0.050 ppm max.	<0.020 ppm
Calcium (Ca)	0.20 ppm max.	<0.10 ppm
Chromium (Cr)	0.050 ppm max.	<0.020 ppm
Cobalt (Co)	0.020 ppm max.	<0.010 ppm
Copper (Cu)	0.020 ppm max.	<0.010 ppm
Germanium (Ge)	0.050 ppm max.	<0.020 ppm
Iron (Fe)	2.0 ppm max.	<1.0 ppm
Lead (Pb)	0.020 ppm max.	<0.010 ppm
Lithium (Li)	0.020 ppm max.	<0.010 ppm
Magnesium (Mg)	0.5 ppm max.	<0.2 ppm
Manganese (Mn)	0.050 ppm max.	<0.020 ppm

It is certified that the above is a true copy of the actual lot analysis.

CERTIFIED CORRECT BY:

Kevin Hansen
Quality Assurance Manager

Disclaimer: To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication. However, nothing herein shall constitute any express or implied warranty of merchantability or fitness for a particular purpose. It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose.

Document Print Date:

07/05/2017

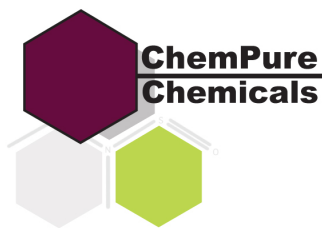
CHEMICAL PROCESSORS AND PACKAGERS OF ELECTRONIC GRADE HIGH PURITY
ACIDS / BLENDS / REAGENTS / SOLUTIONS

PO BOX 5483 * WESTLAND, MICHIGAN * 48185 * PH: (734) 725-1805 * FAX: (734) 405-6623
39103 WARREN ROAD * PLYMOUTH, MICHIGAN * 48170 * INFO@CHEMPUREBRAND.COM

Certificate of Analysis

PRODUCT NAME: **Formic Acid, 98.0-100%**
ACS/Reagent

CHEMICAL FORMULA: CH₂O₂



Cust-Product Code: CP-B0615
EC Number: 200-579-1
Lot Number: K48893964CP
F.W.: 46.0300
CAS No: 64-18-6
Density: 1.22

ANALYTICAL RESULTS		
ITEM	SPECIFICATIONS	ANALYSIS
Molybdenum (Mo)	0.020 ppm max.	<0.010 ppm
Nickel (Ni)	0.050 ppm max.	<0.020 ppm
Potassium (K)	0.10 ppm max.	<0.05 ppm
Silver (Ag)	0.020 ppm max.	<0.010 ppm
Sodium (Na)	0.50 ppm max.	<0.20 ppm
Strontium (Sr)	0.020 ppm max.	<0.010 ppm
Thallium (Tl)	0.050 ppm max.	<0.020 ppm
Titanium (i)	0.10 ppm max.	<0.05 ppm
Vanadium (V)	0.050 ppm max.	<0.020 ppm
Zinc (Zn)	0.050 ppm max.	<0.020 ppm
Zirconium (Zr)	0.10 ppm max.	<0.05 ppm
REMARKS		
This product meets the specifications of the American Chemical Society (ACS)		
Store at 15°C to 25°C		

Manufactured Date: March 10, 2017

Retest Date: March 31, 2022

It is certified that the above is a true copy of the actual lot analysis.

CERTIFIED CORRECT BY:

Kevin Hansen
Quality Assurance Manager

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