Certificate of Analysis

Product Name: Dithizone

ACS reagent, for spectrophotometric det. of Cd, Cu, Hg, Pb,

Zn, >= 98.0 % TLC

Product Number: 43820

Batch Number: BCCF0999

Brand: Sigma-Aldrich

CAS Number: 60-10-6

Formula: C_EH_ENHNHCSN=NC_EH_E

Formula Weight: 256.33

Quality Release Date: 13 DEC 2020 Recommended Retest Date: OCT 2024

TEST SPECIFICATION RESULT

APPEARANCE (COLOR) BROWN TO VERY DARK BROWN AND VERY DARK PURPLE

PURPLE TO VERY DARK PURPLE

APPEARANCE (FORM)POWDERPOWDERPURITY (TLC AREA %) $\geq 98.0 \%$ 100.0 %

SOLUBILITY (COLOR) LIGHT YELLOW TO VERY DARK VERY DARK YELLOW

YELLOW AND LIGHT GREEN TO VERY

DARK GREEN

SOLUBILITY (TURBIDITY) CLEAR CLEAR

SOLUBILITY (METHOD) 10MG IN 10ML PYRIDINE 10MG IN 10ML PYRIDINE

RESIDUE ON IGNITION ≤ 0.3 % 0.3 % **CARBON CONTENT** 60.92 % (THEORY) 60.29 % **HYDROGEN CONTENT** 4.72 % (THEORY) 4.61 % **NITROGEN CONTENT** 21.78 % 21.86 % (THEORY) **INFRARED SPECTRUM** CONFORMS TO STRUCTURE **CONFORMS TEST BY UV SPECTROSCOPY CORRESPONDS** RATIO OF ABSORBANCES (620

NM:450NM): ≥ 1.55

ACS SPECIFICATIONS CORRESPONDS TO REQUIREMENTS CORRESPONDS TO ACS (11TH ED.)

REMARKS ON ACS HEAVY METALS (AS PB) $\leq 0.002 \%$ $\leq 0.002 \%$

Dr. Reinhold Schwenninger

Dr. R. Slump

Quality Assurance Buchs, Switzerland

Sigma-Aldrich warrants that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.