

## **CERTIFICATE OF ANALYSIS**

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1. Identification Catalogue D439375 CAS 7173-51-5 Number: Number: Synonym: N-Decyl-N,N-dimethyl-1-decanaminium Chloride; N-Decyl-N,N-dimethyl-1decanaminium Chloride; Didecyldimethylammonium Chloride; Didecyldimethylammonium Chloride; AQ 210; Acticide DDQ; Acticide DDQ 40; Arquad 10; Didecyl Dimethyl Ammonium Arquad 210; Arquad 210-50; Arquad 210-Product: Chloride 50E; Arquad 210-80; Arquad 210-80E; Arquad 210-85E; Asepas 3; Astop; BTC 1010; BTC 2250; BTC 99; Bardac 22; Bardac 2240; Bardac 2250; Bardac 2270E; Bardac 2280; Bio-Dac; Britewood Q; Britewood XL; Calgon H 130; Catiogen DDM; Catiogen DDM-PG; Cation D Me Me Structure: Molecular Formula: Me C22H48CIN • CI Molecular weight: 362.08 Source of Product: N/A Solubility: Chloroform (Slightly), DMSO (Slightly), Methanol (Slightly), Water (Slightly) Purity: Lot 96% 5-SXG-169-1 Number: Storage This Product Is Stable To Be Shipping Condition: 4°C Condition: Shipped At Room Temperature 2. Warning Warning 1: Warning 2: Warning 3: 3. Analytical Information Tests: Specifications: **Results:** Light Beige to Brown Gel Light Beige to Beige Gel Appearance NMR Conforms to Structure Conforms Elemental Analysis Conforms %C: 69.17, %H: 13.81, %N: 3.51 **HPLC Purity Report Result** 99.64% (ELSD) Conforms to Structure Conforms MS Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of  $\pm$  2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	<b>Reviewed By</b>	C of A Approved By	Test Date	Retest Date
Henry Tieu	Toni Rantanen	Chanell Chu	3/10/2023	3/8/2027
Man	Kato	Gandh Ghu		