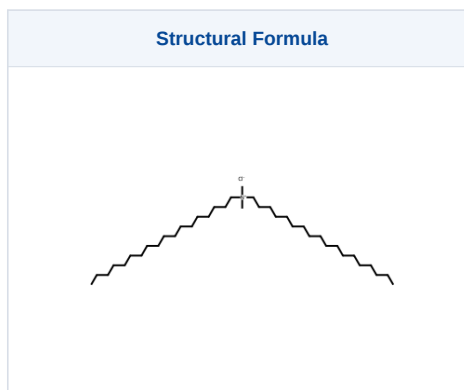


CERTIFICATE OF ANALYSIS

Standard product specification — applicable to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd., manufacturer and supplier of quality chemicals.

Product Name	Dimethyldi-n-octadecylammoniumchloride
C.A.S. Number	107-64-2
Molecular Formula	C ₃₈ H ₈₀ ClN
Molecular Weight	586.52
Grade / Standard	≥90% Purity
Physical Form	Waxy white flakes
Product Category	Textile Auxiliaries & Finishes
Country of Origin	India



ANALYTICAL RESULTS

S. No.	Test Parameter	Specification	Result	Method
1	Description	Waxy white flakes	Complies	Visual
2	Identification	Conforms to the structure of the substance	Complies	FTIR / Chemical test
3	Solubility	As per specification	Complies	Visual / Monograph
4	Assay	Not less than 90.0 % w/w	90.59	Titrimetry / Instrumental
5	Volatile Matter	Not more than 1.0 % w/w	0.55	Gravimetry
6	Ash Content	Not more than 0.5 % w/w	0.033	Gravimetry
7	Softening / Melting Point	As per specification	Conforms	ASTM D3461 / Capillary
8	Residue on 63 µm Sieve	Not more than 0.5 %	0.104	Sieve analysis
9	Heavy Metals (as Pb)	Not more than 20 ppm	Less than 10 ppm	ICP-OES
10	Moisture	Not more than 1.0 % w/w	0.18	Karl Fischer / Gravimetry
11	Structure	Conforms to reference structure	Complies	FTIR / NMR

Remarks

Material supplied against this specification is analysed on every production lot and **conforms** to the limits stated above in all tested parameters. Results shown are the typical values obtained for this grade.

Retained samples are held against every export consignment. Store in tightly closed original packing, in a cool, dry, well-ventilated place away from incompatible materials and direct sunlight.

Checked and Approved by

Prem Panchal
Quality Assurance
Scapex Exports Pvt. Ltd.

This document sets out the standard specification for the product named above and applies to all consignments of this grade. It is issued by Scapex Exports Pvt. Ltd. as manufacturer and supplier. Refer to the Material Safety Data Sheet (MSDS) before handling.