

CERTIFICATE OF ANALYSIS

Standard product specification — applicable to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd.

Product Name	N,N-Dimethyl-1,3-propanediamine	C.A.S. Number	109-55-7
Product Category	Surfactants & Oleochemicals	Product Group	Amine Intermediates
Grade / Standard	≥99% Technical	Physical Form	Colourless to pale yellow liquid
Country of Origin	India	Document No.	SCX/COA/314792
Packing	Standard export packing — bags, drums, carboys, IBC or ISO tank as applicable	Storage	Cool, dry, well-ventilated place in tightly closed original packing

ANALYTICAL RESULTS

S. No.	Test Parameter	Specification	Result	Method
1	Description	Colourless to pale yellow liquid	Complies	Visual
2	Identification	Conforms to the structure of the substance	Complies	FTIR / Chemical test
3	Assay	Not less than 99.0 % w/w	99.20	Titrimetry (Epton / two-phase)
4	pH (10 % aqueous solution)	6.0 – 9.0	7.4	Potentiometry
5	Colour (Klett, 5 % solution)	Not more than 40	13	Klett colorimetry
6	Free Oil / Unsulphated Matter	Not more than 2.0 % w/w	0.89	Solvent extraction
7	Sodium Sulphate	Not more than 1.5 % w/w	0.82	Titrimetry
8	Viscosity at 25 °C	As per specification	3889 cP	Brookfield viscometry

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.
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This document sets out the standard specification for the product named above and applies to all consignments of this grade. It is not a lot-specific release document; a lot-specific certificate carrying the analysis of the material actually shipped is issued with each consignment. The information is given in good faith; it does not constitute a warranty of fitness for any particular purpose. Refer to the Safety Data Sheet before handling.