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उत्पाद मानुयल
3 (एन, एन-डायथाइल) एमिनोफिनॉल-विशिष्टता

IS 7686:2020 के अनुसार

PRODUCT MANUAL FOR

3 (N, N-DIETHYL) AMINOPHENOL-SPECIFICATION

ACCORDING TO IS 7686:2020

भारतीय मानक ब्यूरो (अनुरूपता मूल्यांकन (विनियम की स्कीम-I के तहत यह उत्पाद मानुयल प्रमाणीकरणके प्रचलन में रीति और पारदर्शिता के सुसंगत सुनिश्चित करने के लिए सभी क्षेत्रीय/शाखा कार्यालयों एवं लाइसेंस धारियों द्वारा संदर्भ सामग्री के रूप में उपयोग किया जाएगा। बीआईएस लाइसेंस/प्रमाण पत्र प्राप्त करने के इच्छुक भावी आवेदकों द्वारा भी इस दस्तावेज़ का उपयोग किया जा सकता है।

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure coherence of practice and transparency in operation of certification under Scheme-I of Bureau of Indian Standards (Conformity Assessment) Regulations, 2018 for various products. The document may also be used by prospective applicants desirous of obtaining BIS certification licence/certificate.

1.	उत्पाद Product:	:	IS 7686:2020
	शीर्षक Title	:	3 (N, N-DIETHYL) AMINOPHENOL SPECIFICATION
	संशोधन संख्या No. of Amendments	:	NIL
2.	नमूनाकरण दिशा निर्देश Sampling Guidelines:		
a)	कच्चा माल Raw material	:	No specific raw material requirement
b)	समूहिकरण दिशा निर्देश Grouping guidelines	:	NA
c)	नमूने का परिमाण Sample Size	:	1Kg
3.	परीक्षण उपकरणों की सूची निरीक्षण व परीक्षण स्कीम List of Test Equipment	:	Please refer ANNEX – A

4.	एक दिन में संभावित परीक्षण Scheme of Inspection and Testing	Please refer ANNEX – B
5.	लाइसेन्स का कार्यक्षेत्र /Possible tests in a day	Description, Solubility, Purity by HPLC, Purity by CV, Salt Content by NaCl
6.	लाइसेंस का दायरा / Scope of the Licence:	
	IS 7686:2020 के अनुसार मानक मुहर का उपयोग करने के लिए लाइसेन्स निम्नलिखित कार्यक्षेत्रके लिए प्रदान किया जाता है “Licence is granted to use Standard Mark as per IS 7686:2020 with the following scope:	
	Name of the product	3 (N, N-DIETHYL) AMINOPHENOL

BUREAU OF INDIAN STANDARDS

Manak Bhawan, 9, Bahadur Shah Zafar Marg, New Delhi–
110002

ANNEX A
TO THE PRODUCT MANUAL FOR
3 (N, N-DIETHYL) AMINOPHENOL SPECIFICATION AS PER IS 7686:2020

List of Test Equipment

Major test equipment required to test as per the Indian Standard:

<u>Sr. No</u>	<u>Test Clause</u>	<u>Test Equipment</u>
1	SOLUBILITY Clause 3.2 of IS 7686: 2020	Beaker, Conical Flask, Volumetric Flask, Alcohol, Ether, Sodium Hydroxide, Hydrochloric Acid
2	CRYSTALLIZING POINT Annex A-2 of IS 7686: 2020	Crystallizing Tube, Outer Protection Tube Stirrer, Thermometer, Dewar Vessel, Heating Bath, Vacuum Oven, Acetone Solid Carbon Dioxide, Ice, Calcium Sulphate
3	PURITY BY CV Annex A-3 of IS 7686: 2020	Volumetric Flask, Ice Bath, Amber Coloured Bottle, Digital Balance, Hot Plate, Stop Watch Thermometer, Measuring Cylinder, Jacketed Burette, Whatman No 1 Filter Paper, p -nitroaniline, Conc Hydrochloric Acid, Distilled Water, Sodium Nitrite 1N, Starch Iodide Paper Nitrous Acid, Dianisidine Hydrochloride H-Acid (1 Amino-8 Hydroxy-Napthalene-3,6-Disulphonic Acid, Sodium Carbonate, Sodium Acetate (Hydrated), Tetra-Azodianisidine
4	PURITY BY HPLC Annex B of IS 7686: 2020	Binary gradient Liquid Chromatography System Column C18 100A, Volumetric Flask, Digital Balance, Injector, Measuring Cylinder, Acetonitrile HPLC Grade, Water HPLC Grade Di-Sodium Hydrogen Orthophosphate, Ammonium di Hydrogen Orthophosphate, 3 (N, N- Diethyl) Aminophenol
5	SALT CONTENT AS NaCl Annex C of IS 7686: 2020	Paper Boat, Digital Balance, Wash Bottle Volumetric Flask, Conical Flask, Volumetric Pipette, Magnet and Magnetic Stirrer, Burette, Silver Nitrate 0.1N (Standardized) Potassium Chromate Indicator 0.1%

The above list is indicative only and may not be treated as exhaustive.

ANNEX B
TO THE PRODUCT MANUAL FOR
3 (N, N-DIETHYL) AMINOPHENOL SPECIFICATION AS PER IS 7686: 2020

Scheme of Inspection and Testing

1. LABORATORY - A laboratory shall be maintained which shall be suitably equipped (as per the requirement given in column 2 of Table 1) and staffed, where different tests given in the specification shall be carried out in accordance with the methods given in the specification.

1.1 The manufacturer shall prepare and implement a calibration plan for the test equipment.

2. TEST RECORDS – The manufacturer shall maintain test records for the tests carried out to establish conformity.

3. LABELLING, MARKING, PACKING - The Standard Mark as given in schedule of the licence and Licence Number (i.e. CM/L) shall be incorporated on the product and on the test certificate accompanied along with each consignment, and the marking and packing shall be done as per the provisions of the Indian Standard, provided always that the product thus marked conform to all the requirements of the specification.

4. CONTROL UNIT – For the purpose of this scheme, the quantity of the material produced from the same type of raw material in a day shall constitute a control unit.

5. LEVELS OF CONTROL - The tests as indicated in column 1 of Table 1 and the levels of control in column 3 of Table 1, shall be carried out on the whole production of the factory which is covered by this plan and appropriate records maintained in accordance with paragraph 2 above.

5.1 All the production which conforms to the Indian Standards and covered by the licence should be marked with Standard Mark.

6. TEST CERTIFICATE - For each consignment of BIS Certified material conforming to IS 7686:2020 there shall be a test certificate which shall contain the Standard Mark, the Control Unit number and the corresponding test results (as given in Annexure-I enclosed)

7. REJECTIONS – Disposal of non-conforming product shall be done in such a way to ensure that there is no violation of provisions of BIS Act, 2016.

Table 1

(Levels of Control)

(Para 5 of Scheme of Inspection and Testing)

Sl No.	(1)				(2)	(3)		
	Test Details				Test equipment requirement R:required (or) S:Subcontracting permitted	Levels of Control		
	Cl.	Requirement	Test Method			No. of Sample	Frequency	Remarks
			Clause	Reference				
1	3.1	Description	3.1	IS 7686	R	One	Each Control Unit	-
2	3.2	Solubility	3.2	IS 7686	R	One	Each Control Unit	-
(i)	3.3 Table 1	Crystallizing Point	A-2 of ANNEX A	IS 5299	R	One	Each Control Unit	-
(ii)	3.3 Table 1	Purity by CV	A-3 of ANNEX A	IS 7686	R	One	Each Control Unit	-
(iii)	3.3 Table 1	Purity by HPLC	ANNEX B	IS 7686	R	One	Each Control Unit	-
(iv)	3.3 Table 1	Salt Content as NaCl	ANNEX C	IS 7686	R	One	Each Control Unit	-

Note-1: The control unit and levels of control as decided by the Bureau are obligatory, to which the licensee shall comply with.

Note-2: Whether test equipment is required or sub-contracting is permitted in column 2 shall be decided by the Bureau and shall be mandatory. Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empanelled by the Bureau.

ANNEXURE I

(Para 6 of the Scheme of Inspection and Testing)

XYZ COMPANY

(Registered office Address and works address)

TEST CERTIFICATE

**3 (N, N-Diethyl) Aminophenol- Specification
as per IS 7686:2020**BIS
STANDA
RD
MARK

TEST CERTIFICATE No.

DATE _____

To M/s _____

We certified that the material described below fully conforms to IS **7686:2020**. Chemical composition and properties of the product, as tested in accordance with the Scheme of Testing and Inspection contained in the BIS Certification Marks Licence No.CM/L _____ are as indicated below against each order No.

(PLEASE REFER TO IS **7686:2020** FOR DETAILS OF
SPECIFICATION REQUIREMENTS)

TEST RESULTS

Order No. & Date	Control Unit No.	Quantity in tonnes	Description	Solubility	Crystallizing Point	Purity by CV	Purity by HPLC	Salt content as NaCl

REMARKS

WAGON

NO.

TRUCK NO.

(It is suggested that size A4 paper be used for this test certificate)

FOR XYZ COMPANY