उत्पाद मैन्युअल

2- नेफ़थाइलमाइन - 3 : 6 : 8 : ट्राइसल्फ़ोनिक एसिड, तकनीकी — विशिष्टि

IS 11557:2026 के अनुसार

PRODUCT MANUAL FOR
2 - Naphthylamine - 3: 6: 8 - Trisulphonic acid,
Technical - Specification
ACCORDING TO IS 11557 :2026

विभिन्न उत्पादों के लिए भारतीय मानक ब्यूरो) अनुरूपता मूल्यांकन (विनियम, 2018 की योजना -I के तहत प्रमाणन के संचालन में एकरूपता और पारदर्शिता के लिए इस उत्पाद मैनुअल का उपयोग सभी क्षेत्रीय / शाखा कार्यालयों और लाइसेंसधारियों द्वारा संदर्भ सामग्री के रूप में किया जाएगा। दस्तावेज़ का उपयोग बीआईएस प्रमाणन प्राप्त करने के इच्छुक संभावित आवेदकों द्वारा भी किया जा सकता है।

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure uniformity 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.

1.	मानक संख्या **IS No.**	:	IS 11557: 2026
	शीर्षक **Title**	:	2 - Naphthylamine - 3: 6: 8 - Trisulphonic acid, Technical - Specification
	संशोधनों की संख्या **No. of amendments**	:	Nil
2.	नमूना दिशानिर्देश **Sampling Guidelines**		
a)	कच्चा माल **Raw material**		No Specific Requirement
b)	समूहीकरण दिशानिर्देश **Grouping Guidelines**	:	Not Applicable
c)	नमूने का परिमाण **Sample Quantity**	:	1 kg
d)	परीक्षण अनुरोध में घोषित किए जाने वाले पैरामीटर **Parameters to be Declared in Test Request**	:	2 - Naphthylamine - 3: 6: 8 - Trisulphonic acid, Technical
3.	परीक्षण उपकरणों की सूची **List of Test Equipment**	:	Please refer Annexure - A

4.	**निरीक्षण और परीक्षण की स्कीम Scheme of Inspection and Testing**	:	Please refer Annexure - B
5.	**एक दिन में संभावित परीक्षण Possible tests in a day**		
	All tests		
6.	**लाइसेंस का दायरा /Scope of the Licence:**		
	Licence is granted to use Standard Mark as per 11557: 2026 with the following scope:		
	Name of the product	2 - Naphthylamine - 3: 6: 8 - Trisulphonic acid, Technical - Specification	

BUREAU OF INDIAN STANDARDS
Manak Bhawan, 9, Bahadur Shah Zafar Marg,
New Delhi – 110002

Annexure A
LIST OF TEST EQUIPMENTS

(INDICATIVE LIST, FOR GUIDANCE ONLY)

Sl No.	Test Used in with Clause Reference	Test Equipment/ Chemical
1	Description	Visual, dilute alkaline solution
2	Assay (on dry basis), Cl 3.2 & Table 1	Sodium carbonate Solution, Concentration Hydrochloric Acid, Standard Sodium Nitrite Solution, Potassium Bromide Hot Air Oven, Weighing balance, Volumetric Flask, Beaker, Burette, Ice, Starch Iodide Paper
3	Purity by HPLC, Cl 3.2 & Table 1	As per Annex- B of IS 11557
4	Amido G acid, Clause 3.2 & Table 1,	Vacuum Filtration Assembly, HPLC vial capacity —1.5 ml 0.45µm Nylon Membrane Filter Paper 46 mm Diameter, Ultrasonic water bath, pH Meter, Column – Base deactivated silica C18, Tetrabutyl ammonium bromide, Water – HPLC or equivalent grade, Methanol – HPLC grade, Naphthylamine – 3:6:8 Trisulphonic Acid – reference standard, Sodium sulphate, Weighing balance, Volumetric flask,
5	2-Napthylamine (by HPLC), Clause 3.2 & Table 1	
6	Matter insoluble in dilute sodium carbonate solution, Clause 3.2 & Table 1	Weighing Balance, Beaker, Hot Air Oven, Whatman Filter paper, pH Meter, Hydrochloric Acid, Sodium Carbonate Solution
7	Solubility in water of 10 percent at 30 °C, Clause 3.2 & Table 1	Analytical Weighing Balance, Magnetic Stirrer. Beaker
8	Free acidity as sulphuric acid by titration, Clause 3.2 & Table 1	Weighing Balance, Beaker, Burette, Standard Sodium Hydroxide Solution, Phenolphthalein Indicator
9	Loss on Drying at 105 °C, Clause 3.2 & Table 1	Glass-Stoppered — shallow weighing bottle, Weighing Balance, Weighing Bottle, Hot Air Oven, Desiccator

Annexure B

SCHEME OF INSPECTION AND TESTING

1. QUALITY ASSURANCE PLAN

1.1 It is expected that during operation of BIS licence, manufacturers will implement a Quality Assurance Plan (QAP) i.e. a plan of regular testing and in-process controls, designed to ensure that the product bearing theStandard Mark conforms to all requirements of the Indian Standard.

1.2 The manufacturers shall define a Quality Assurance Plan (QAP) defining the control unit (i.e. lot/batch etc.), the levels of control (i.e. the frequency and number of samples for conducting the differenttests as per the Indian Standard) and declare the arrangement for testing i.e. whether in-house or subcontracting/sharing for each applicable test and submit the same to BIS Branch Office for information. The manufacturer shall comply with the QAP and maintain test records in accordance with para 2.1.

1.3 **RECOMMENDED LEVELS OF CONTROL/CONTROL UNIT**:

1.3.1For the guidance of manufacturers, the recommended definition of control unit is: A single batch of 2 - Naphthylamine - 3 : 6 : 8 - Trisulphonic acid, Technical produced under similar conditions of production.

1.3.2 For the guidance of manufacturers in preparing the Quality Assurance Plan, recommended levels of control are given in **Table 1**. Manufacturer has the discretion of declaring their own levels of control or accept the levels of control given in this document.

1.3.3 The manufacturer shall ensure inspection and testing as per the Quality Assurance Plan submitted by them on the whole production of the factory which is covered by this plan.

2. ENSURING COMPLIANCE THROUGH TESTING- manufacturers shall ensure compliance of their products to all the requirements of the Indian Standard for which they may have in-house test facilities. However, there is no obligation to maintain in-house laboratory. Licensee may use alternative arrangements for tests of the production as per the declared QAP. Various alternatives are available for operation of BIS certification as given below and the relevant guidelines for availing such relaxations by the manufacturers, as amended from time to time, are to be referred:

i) Shared testing resources like common facility,

ii) Cluster based testing facility,

iii) Sub-contracting to outside laboratories which may either be:

a) BIS recognised/empanelled laboratories, or

b) Any accredited laboratory as per ISO/IEC 17025

2.1 **TEST RECORDS**- The manufacturers shall maintain test records for the tests carried out (either in-house or at a sub-contracted or at shared test facility) to establish conformity of the product to the Standard for operation of licence. For the tests being subcontracted or conducted at a shared test facility, test results issued by the laboratories or test facilities, shall be made available for inspection by BIS.

3. PACKING AND MARKING - The Standard Mark as given in the Schedule of the licence shall be incorporated legibly and indelibly on each packaging provided always that the material so marked conforms to each requirement of the specification.

3.1 Packing and Marking shall be done as per the clause 4 of the Indian Standard.

3.2 **Additional Marking requirements**: The material shall also be marked with the following additional requirement on each packaging.

a) "For BIS certification details please visit www.bis.gov.in"

4. REJECTION - The production which conforms to the Indian Standard and covered under the scope of this licence shall be marked with the Standard Mark. Disposal of non-conforming product shall be done in such a way so as to ensure that there is no violation of provisions of BIS Act.

TABLE 1: LEVELS OF CONTROL
(*Recommended Levels of Control by BIS- For Guidance Only*)

TEST DETAILS				LEVELS OF CONTROL		REMARKS
Clause	Requirements	Test Method		No. of Samples	Frequency	
		Clause	Reference			
3.1	Description	3.1	IS 11557	Firm to have adequate in-process controls to check compliance of this parameter as given in the Indian Standard. However, appropriate records shall be maintained by the manufacturer for evidence of conformity		
3.2 & Table 1	Assay (on dry basis)	Annex A	-do-	1	Each Control Unit	
	Purity by HPLC	Annex B	-do-	1	Each Control Unit	
	Amido G acid (by HPLC)			1	Each Control Unit	
	2-Napthylamine (by HPLC),			1	Each Control Unit	
	Matter insoluble in dilute sodium carbonate solution	Annex C	-do-	1	Each Control Unit	
	Solubility in water of 10 percent at 30 °C	Annex D	-do-	1	Each Control Unit	
	Free acidity as sulphuric acid by titration	Annex E	-do-	1	Each Control Unit	
	Loss on Drying at 105 °C	Annex F	-do-	1	Each Control Unit	