



उत्पाद मैनुअल

Ethyl Acrylate 14708: 1999 के अनुसार

**PRODUCT MANUAL FOR SPECIFICATION FOR Ethyl Acrylate
ACCORDING TO IS 14708 : 1999**

भारतीय मानक ब्यूरो (अनुरूपता निर्धारण) विनियम, 2018 की स्कीम-I के तहत यह उत्पाद मानुअल प्रमाणीकरण के प्रचलन में रीति और पारदर्शिता के सुसंगतता सुनिश्चित करने के लिए सभी क्षेत्रीय/शाखा कार्यालयों एवं लाइसेंसधारियों द्वारा सदर्थ 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 license/certificate.

1.	उत्पाद Product	:	IS 14708: 1999
	शीर्षक Title	:	Ethyl Acrylate — Specification
	संशोधन संख्या No. of Amendments	:	-
2.	नमूनाकरण दिशा निर्देश Sampling Guidelines:		
a)	कच्चा माल Raw material	:	No Specification Requirement
b)	समूहीकरण दिशा निर्देश Grouping guidelines	:	NA
c)	नमूने का परिमाण Sample Size	:	1000 ml
3.	परिक्षण उपकरणों की सूची List of Test Equipment	:	Please refer ANNEX – A

4.	निरिक्षण एवं परिक्षण स्कीम Scheme of Inspection and Testing	:	Please refer ANNEX – B
5.	एक दिन में संभावित परिक्षण Possible tests in a day:		
	All the tests mentioned in IS 14708 are possible to be carried out in a day.		
6.	लाइसेंस का कार्यक्षेत्र/Scope of the Licence		
	— IS 14708:1999 के अनुसार मानक मुहर का उपयोग करने के लिए लाइसेंस निम्नलिखित कार्यक्षेत्र के लिए प्रदान किया जाता है - License is granted to use Standard Mark as per IS 14708:1999 with the following scope:		
	उत्पाद का नाम Name of the product	Ethyl Acrylate	
	Grade/Variety	NA	

ANNEX A

Table 1 Requirements for Ethyl Acrylate (Clause 3)

Sl. No.	Tests used in with Clause Reference		Test Equipment
	Test	Clause	
1.	Assay	Cl 3, Table 1, Sl. No. (i)	Any suitable Gas liquid Chromatograph with flame ionization detector, as per A-2 of IS 14708, Standard samples for all components for calibration and identification.
2.	Acidity (as acrylic acid)	Cl 3, Table 1, Sl. No. (ii)	Weighing Balance, 100 ml measuring Cylinder, 250 ml Erlenmeyer flask, 10 ml Burette graduated in 0.05 ml, 50 ml pipette, 0.5 ml pipette, Refined ethyl or iso-propyl alcohol, Phenolphthalein or Bromothymol blue Indicator, Sodium Hydroxide (or Standard Potassium Hydroxide Solution)
3.	Colour, Pt-Co scale,	Cl 3, Table 1, Sl. No. (iii)	Cobalt Chloride Hexahydrate, Chloroplatinic acid or Potassium Chloroplatinate Hydrochloric acid, Nitric Acid, Platinum-Cobalt Stock Solution, Standard Platinum - Cobalt Scale Matching Solutions, Colour Comparison Tubes - matched 100 ml, tall form Nessler tubes with 100 ml mark at 275 mm to 295 mm above bottom, Colour comparator, Spectrophotometer with 10 mm cells, Volumetric Flasks, Glass or Porcelain Dish, Stoppered Glass bottles, Micro/semi micro Burette, Weighing Balance, Water Bath
4.	Water	Cl 3, Table 1, Sl. No. (iv)	Methanol, 2-Methoxyethanol, Iodine, Pyridine, Sample Solvent Sulphur dioxide, Karl Fischer Reagent (Non pyridine based can also be used),

			Ice-bath or in crushed solid carbondioxide Sodium tartarate, Crystalline, Water-Methanol Standard Solution - 10 mg/ml, Water-Methanol Solution – approximately 2 g/l, Aluminium Sodium Silicate/Activated Silica Gel, Silicone base grease, Karl Fischer Titrator as per Cl. 6 of IS 2362, Reagent bottle of brown or black-painted glass, Microburette or a pipette, Dry 500 ml one-mark volumetric flask Dry 100 ml one-mark volumetric flask Oven Desiccator Weighing balance
5.	Inhibitors (as methyl Etherhydroquinone)	Cl 3, Table 1, Sl. No. (v)	Spectrophotometer, Weighing Balance (LC- 0.1 mg), Volumetric flasks - 50 and 100 ml capacity, Measuring Pipettes - 5 and 10 ml capacity, Acetic acid (glacial), Monomethyl Ether of Hydroquinone (MEHQ), Sodium Nitrite solution, Distilled water

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

ANNEX B

SCHEME OF INSPECTION AND TESTING (SIT)

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. PACKING AND MARKING - The Standard Mark, as given in the Schedule of the licence, shall be marked on the container provided always that material so marked conform to requirements of the specification.

3.1 Packing and Marking shall be done as per Cl. 4 of the Indian Standard. In addition, the following shall be incorporated on each container :

- i. BIS Licence No. (CM/L)
- ii. BIS website details i.e. —For details of BIS certification please visit www.bis.gov.in '.

3.2 If material is supplied in tank cars, tank trucks, container ships etc. the Standard Mark as given in Schedule of the licence and Licence Number (i.e., CM/L) shall be incorporated on a test certificate to be provided along with each tank car/tank truck/container ship as per the format at Appendix-1 enclosed, provided always that the product thus marked conforms to all the requirement of the specification. Packing shall be done as per provisions of Indian Standard and the marking details as per Cl 4.2 of IS 14708 : 1999 shall also be indicated on the test certificate.

4. CONTROL UNIT – For the purpose of this scheme, the entire quantity of the material produced in one 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. REJECTIONS – 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

(1)				(2)	(3)		
Test Details				Test equipment requirement R: Required(or) S: Sub-contracting permitted	Levels of Control		
CI	Requirement	Test Method			No. of Sample	Frequency	Remarks
		Clause	Reference				
CI 3, Table 1, Sl. No. (i)	Assay	Annexure A	IS 14708	R	One	Every Control Unit	
CI 3, Table 1, Sl. No. (ii)	Acidity (as acrylic acid),	Annexure B	IS 14708	R	-do-	-do-	
CI 3, Table 1, Sl. No. (iii)	Colour, Pt-Co scale	IS 8768	IS 8768	R	-do-	-do-	
CI 3, Table 1, Sl. No. (iv)	Water	IS 2362	IS 2362	R	-do-	-do-	
CI 3, Table 1, Sl. No. (v)	Inhibitors (as methyl hydroquinone)	Annexure C	IS 14708	R	-do-	-do-	

NOTE 1: Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empaneled by the Bureau.

NOTE 2: Levels of control given in column 3 are only recommendatory in nature. The manufacturer may define the control unit/batch/lot and submit his own levels of control in column 3 with proper justification for approval by BO Head.

Appendix-1
TEST CERTIFICATE

XYZ COMPANY (REGISTERED OFFICE ADDRESS AND WORKS ADDRESS)
TEST CERTIFICATE FOR ETHYL ACRYLATE

TEST CERTIFICATE NO. _____ DATED _____

SUPPLIED TO M/s _____ (Name and Address of Consignee)

It is certified that the material described below fully conforms to IS 14708: 1999.

The properties of the product, as tested in accordance with the Scheme of Inspection and Testing contained in the BIS Certification Marks

License No. CM/L _____ are as indicated below against each order no. etc.

(PLEASE REFER TO IS 14708: 1999 FOR DETAILS OF SPECIFICATION REQUIREMENTS)

TEST RESULTS

Order no and date	Name of the material	Test	Requirement	Observed Value	Control Unit/Batch Number	Month and Year of manufacture	Quantity	Remarks
		Assay						
		Acidity (as acrylic acid),						
		Colour, Pt-Co scale						
		Water						
		Inhibitors (as methyl hydroquin one)						

The material supplied conforms to specified requirements of IS 14708 : 1999

REMARKS:

Tank Car / Tank Truck / Container ship no.

(Signature)
For XYZ Company

(For details of BIS certification please visit www.bis.gov.in)