



उत्पाद मैनुअल
एल्किल बेन्जीन सल्फोनिक अम्ल (अम्लीय घोल) - विशिष्टि
8401 : 1994 के अनुसार

PRODUCT MANUAL FOR
ALKYL BENZENE SULPHONIC ACID (ACID SLURRY) - SPECIFICATION
ACCORDING TO IS 8401 : 1994

भारतीय मानक ब्यूरो (अनुरूपता मूल्यांकन) विनियम 2018 की स्कीम-I के तहत यह उत्पाद मैनुअल प्रमाणीकरण की संचालन रीति में सुसंगता और पारदर्शिता 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 8401 : 1994
	शीर्षक Title	:	एल्किल बेन्जीन सल्फोनिक अम्ल (अम्लीय घोल) - विशिष्टि Alkyl Benzene Sulphonic Acid (Acid Slurry) - Specification
	संशोधनों की संख्या No. of Amendments	:	01 One
2.	नमूनाकरण दिशा निर्देश Sampling Guidelines:		
a)	कच्चा माल Raw material	:	As Linear Alkyl Benzene (LAB), used as raw material in the manufacturing of Alkyl Benzene Sulphonic Acid, comes under Linear Alkyl Benzene (Quality Control) Order, 2022, dt 5 th April 2022, Linear Alkyl Benzene shall be procured with Standard Mark from BIS certified licensee.
b)	समूहीकरण दिशा निर्देश Grouping guidelines	:	Sample shall be tested for each Type to cover respective type of material in the scope of the licence.

c)	नमूने का परिमाण Sample Size	:	2 x 500 ml
3.	परीक्षण उपकरणों की सूची List of Test Equipment	:	कृपया Annex - A देखें Please see Annex – A
4.	निरीक्षण व परीक्षण स्कीम Scheme of Inspection and Testing	:	कृपया Annex - B देखें Please see Annex – B
5.	एक दिन में संभावित परीक्षण Possible tests in a day :		All the tests mentioned in IS 8401 are possible to be carried out in a day.
6.	लाइसेन्स का कार्यक्षेत्र / Scope of the Licence:		
	IS 8401 : 1994 के अनुसार मानक मुहर का उपयोग करने के लिए लाइसेन्स निम्नलिखित कार्यक्षेत्र के लिए प्रदान किया जाता है Licence is granted to use Standard Mark as per IS 8401 : 1994 with the following scope:		
	उत्पाद का नाम Name of the product		एल्किल बेन्जीन सल्फोनिक अम्ल (अम्लीय घोल) Alkyl Benzene Sulphonic Acid (Acid Slurry)
	Type		Type 1 and/or Type 2

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ANNEX – A
TO PRODUCT MANUAL FOR
ALKYL BENZENE SULPHONIC ACID (ACID SLURRY) - SPECIFICATION
ACCORDING TO IS 8401 : 1994
List of test equipment

Major test equipment required to test as per the Indian Standard

Sl. No.	Test Details	Name of Equipments, Chemicals, & Glasswares
1.	Active Matter As Alkyl Benzene Sulphonic Acid Cl 5.2, Table 1, Sl. No. (i), Annex A & B	Weighing Balance
		Volumetric Flask
		Stoppered Graduated cylinder
		Burette
		Pipette
		Beakers
		Water Bath
		Reflux Condenser
		Buchner Flask
		Evaporating Basin
		Separating Funnels
		Wide mouthed flat bottomed flask
		Arrangement of dry air
		Hot air Oven
		Desiccator
		Chloroform
		Sulphuric Acid
		Sodium hydroxide
		Sodium Lauryl Sulphate
		Phenolphthalein Indicator
		Ethanol
		Benzethonium Chloride
		Methylene Blue
		Sodium Sulphate
		Caustic Soda
		Diethyl Ether
		Acetone
		Methyl Orange
		Ferric Ammonium Sulphate
		Ammonium Thiocyanate
		Nitric Acid
		Nitro-benzene
		Silver Nitrate
		Distilled water

2.	Free Alkyl Benzene Cl 5.2, Table 1, Sl. No. (ii) , Annex C	Weighing Balance
		Beaker
		Separating Funnel
		Filter Paper
		Distilled Water
		Absolute Alcohol
		Ethanol
		Petroleum Ether
		Phenolphthalein
		Sodium Hydroxide
		Anhydrous Sodium sulphate
3.	Free Sulphuric Acid Cl 5.2, Table 1, Sl. No. (iii) , Annex D	Weighing Balance
		Separating Funnel
		Congo Red Paper
		Beaker
		Filter Paper
		Absolute alcohol
		Phenolphthalein
		Sodium Hydroxide
		Hydrochloric Acid
		p-Toluidine Hydrochloride Solution
		Ethyl Ether
4.	Colour Cl 5.2, Table 1, Sl. No. (iv), Annex E or Annex F	BY LOVIBOND TINTOMETER
		Lovibond Tintometer
		Glass cell – ¼ in size
		Filter Paper
		Ethanol
		Carbon Tetrachloride
		BY KLETT COLORIMETER
		Klett Colorimeter
		Filter Paper
		Distilled Water

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

ANNEX B
TO PRODUCT MANUAL FOR
ALKYL BENZENE SULPHONIC ACID (ACID SLURRY) - SPECIFICATION
ACCORDING TO IS 8401 : 1994
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 equipments.

2. TEST RECORDS – The manufacturer shall maintain test records for the tests carried out to establish conformity. All records of analysis and tests shall be kept in suitable forms approved by the Bureau of Indian Standards. Copies of any records that may be required by BIS shall be made available at any time on request.

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

3.1 Packing and Marking shall be done as per Cl. 6 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 .

4. CONTROL UNIT –For the purpose of this scheme, the total quantity of the Alkyl Benzene Sulphonic Acid of one type manufactured in a day shall be considered as 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, 2016.

TABLE 1 (Levels of Control)
(Para 5 of Scheme of Inspection and Testing)

(1)				(2)	(3)		
Test Details				Test equipment requirement R: required (or) S: Sub-contracting permitted	Levels of Control		
Cl.	Requirement	Test Method			No. of Sample	Frequency	Remarks
		Clause	Reference				
5.1	Description	5.1	IS 8401	R	One	Each Control Unit	
5.2 Table 1, Sl. No. (i)	Active Matter as Alkyl Benzene Sulphonic Acid	Annex A & B	IS 8401	R	One	Each Control Unit	
5.2 Table 1, Sl. No. (ii)	Free Alkyl Benzene	Annex C	IS 8401	R	One	Each Control Unit	
5.2 Table 1, Sl. No. (iii)	Free Sulphuric Acid	Annex D	IS 8401	R	One	Each Control Unit	
5.2 Table 1, Sl. No. (iv)	Colour	Annex E/ Annex F	IS 8401	R	One	Each Control Unit	

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