Email

PCD Nine Petrochemical

Re: Seeking approval for draft documents for sending them for printing - reg.

From : Rode Chandrashekhar <cv.rode@ncl.res.in>
Subject : Re: Seeking approval for draft documents for sending them for printing - reg.
Wed, Dec 21, 2022 02:08 PM
To : PCD Nine Petrochemical <pcd9@bis.gov.in>
Cc : cvrode8@gmail.com

Dear Aditi,

Approved for sending the draft for printing.

With warm regards,
Dr. C. V. Rode, FNAE, FMASc
Chairperson PCD 9

From: "PCD Nine Petrochemical" <pcd9@bis.gov.in>
To: "Rode Chandrashekhar" <cv.rode@ncl.res.in>, cvrode8@gmail.com
Sent: Wednesday, December 21, 2022 11:16:02 AM
Subject: Seeking approval for draft documents for sending them for printing - reg.

Dear Sir,

This is with reference to the decision of the Committee in its 33rd meeting held on 16 September 2022. The Committee decided to finalize the following documents after incorporating the inputs as received, in consultation with the Chairman:

PCD 09 (19468) — IS 718 Carbon Tetrachloride — Specification

Based on the Committee decision the following changes have been done:

a) Incorporated the note for allowing the use of digital density meter: *NOTE — Digital density meter may also be used.*
b) Incorporated the note for making distillation range optional as: *NOTE — Distillation range at 760 mm Hg is an optional parameter or as agreed between the between the purchaser and manufacturer.*
c) To refer GHS guidelines and incorporate suitable signals as per GHS — After referring to the guidelines it was observed that carbon tetrachloride is classified as 6.1 Toxic substance. In the view of this the marking clause has been modified as:

*All containers in which the material is stored or transported shall be suitably marked with letter '**TOXIC**'. The label shall also prominently and clearly marked with the following marking:*

STORE IN COOL AND DRY PLACE. PROTECT FROM DIRECT SUNLIGHT.

USE WITH ADEQUATE VENTILATION, WEAR MASK AND NECESSARY PERSONAL PROTACTIVE EQUIPMENTS DURING HANDLING

The draft was circulated to members after incorporating the above changes for comments, the following comments have been received on the draft circulated:

Recommended to modified the note regarding calibration of thermometer certificated as: '*The thermometer shall bear a certificate from any institution authorized to issue certificate traceable to international or national measurement standards*' from '*The thermometer shall bear a certificate of the National Physical Laboratory, New Delhi, or any other organization recognized for such work.*'

PCD 09 (20277) — IS 17370 : 2020 *p*-Xylene — Specification

Based on the Committee decision the following changes have been done:

a) The clarification as received from Shri Pramod Mall, Reliance regarding procedure (A-3.5 and A-3.6) for determination of purity of p-Xylene has been incorporated as:

A-3.5 Retention Time Check

A-3.5.1 *Retention time check solution*

*Take 75 ml high purity p-xylene (**A-3.3.1**) in 100 ml volumetric flask. To it add 0.1 ml m-xylene, 0.01 ml each of toluene, ethyl benzene, cumene, o-xylene, styrene, phenyl acetylene and alpha methyl styrene and 0.001 ml each of benzene and 1,4-dioxane. Now dilute it up to the mark with high purity p-xylene.*

A-3.5.2 *Performance check sample*

*Prepare 10 mg/ kg toluene standard using the high purity p-xylene (see **A-3.3.1**).*

A-3.6 Instrument Performance Verification

A-3.6.1 *The instrument is set as per **A-3.2.1.2** or as per manufacturer's recommendation. Inject the solution so prepared at **A-3.5.1** into GC, to determine retention time of each component and there should be sufficient separation of p-xylene peak from*

*ethyl benzene and m-xylene. Poor resolution of these peaks may sometimes require tangent skimming from the nearby peak. For performance verification of the instrument, set the instrument as per **A-3.2.1.2** or as per manufacturer's recommendation and inject the solution prepared at **A-3.5.2** into GC. Calculate the concentration of toluene by using effective carbon number and density value (see Table 3). It shall be in the range of 10 ± 3 mg/kg. Instrument performance shall be periodically verified as per this procedure.*

PCD 09 (19088) — Polyether Polyols — Specification [DCPC Subject]

During the meeting the Committee decided to request IPUA to send their comments, if any on the draft and also provide inputs on the comments as received from BASF. The following comments have been received:

- The draft standard refers to ISO 14900 for measurement of Hydroxyl number. ISO 14900 allows measurement of results at a water bath temperature of 100 +/- 2 Degrees C. If this could please be incorporated in the standard please.
- Reference is provided to ISO: 2555:1989 in the draft. This standard has been discontinued and replaced by ISO: 2555: 2018. Request reference to the latest standard may be considered.

Regarding comment 1., it is informed that ISO 14900 is refereed as an alternate method in which the temperature is already stated, thus it will satisfy the need. For comment 2., reference of IS 13360 (Part 11/Sec 10) : 1999 / ISO 2555 : 1989, it is mentioned in the clause stating as: ' *All standards are subject to revision, and parties to agreement based on standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated.*'

Hence, both comments as received are not technical in nature and are already covered in draft. Further, based on the comments received from BASF, the addition of 50 ml of 0.5 N NaOH in method B of Annex A (A-3.3) has been deleted, as the method is formulated by taking assistance from ASTM D 4274 and no such requirement is stated in ASTM as well.

PCD 09 (19870) - Citric Acid, Monohydrate - Specification (Second Revision)

During the meeting the Committee decided to seek clarification from Ms Vrinda Rajwade reagrding the total volume of solution required while determining sulphates content. The following clarification has been received:

Sl. No. (1)	Clause/Sub-clause/ para/table/fig. No. commented (2)	Commentator/ Organization/ Abbreviation (3)	Justification (4)	Proposed change (5)	Decisi Com (
2.	B-4.1	Vrinda Rajwade	Change 40 ml of water to 38 ml of water. After adding up, the total volume is equal to 52 ml. Hence adjusting water to get the	Dissolve 5.0 g of the material in **38 ml** of water and transfer quantitatively into one of the Nessler cylinders.	NOT AGREE volume as th any issue if to ml.

			total volume as 50 ml.		
			Change 1 ml of standard sulphate solution to 5 ml of standard sulphate solution. 1 ml is valid if we take 1g sample for testing. Since we are taking 5 g sample, then 5 ml of 0.1 mg/ml solution is required.	Allow to stand for 1 h. In another Nessler cylinder carry out control test under same conditions using **5 ml** of standard sulphate solution, 37 ml of water, 10 ml of denatured spirit, 1 ml of dilute hydrochloric acid, and 1 ml of barium chloride solution.	REQUESTED seek clarificati about the tot when sample i one solution ar sulphate solut preparing anotl

In the view of the above, it is requested to kindly guide on the comments received and consider according your approval for sending the drafts into printing. The changes as recommended are incorporated in the drafts for your kind perusal.

Thanks and regards,

Aditi Choudhary,
Scientist 'B
PCD