

Rev. 09	METHANOL IP SPECIFICATION		Reference
			IP-2022
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Sr. No.	Test	Specification	Method of Analysis No.
1	Description	Clear, colourless, liquid; odor characteristic.	QC/PH-FG/SPEC/12-01
2	Boiling point	About 65°C	QC/PH-FG/SPEC/12-02
3	Weight per ml at 25°C	About 0.791 g at 25°C	QC/PH-FG/SPEC/12-03
4	Residual solvents (By GC)		QC/PH-FG/SPEC/12-04
	Benzene	Not more than 2 ppm (v/v)	
	Ethanol	Not more than 5000 ppm (v/v)	
	Acetone	Not more than 5000 ppm (v/v)	

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	PREPARED BY	CHECKED BY	AUTHORIZED BY
	Q.C	Q.C	Q.A
SIGNATURE	<u>Phate</u>	<u>Ch</u>	<u>Pspandit</u>
DATE	13/03/2023	14/03/2023	14/03/2023

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GENERAL INFORMATION

Structure:
 $\text{H}_3\text{C} - \text{OH}$
Molecular Formula: CH_4O
Molecular weight: 32.04

Desirable Pack:

To be supplied in MS drums/SS containers/HDPE containers/HM-HDPE containers and Glass bottles. properly identified with a label having Name of the material, Name of the Manufacturer, Quantity, Manufacturer's Batch Number, Manufacturing Date, Expiry Date and or Retest Date.

Storage Condition:

Store in an airtight container.

Handling precaution:

Use PPE (Personal Protective Equipments) during handling of the material.

Sampling SOP:

As per the current approved sampling procedure. (SOP/QC/GE/01)

Quantity to be sampled:

Analysis Sample: About 440 ml

Control Sample: About 880 ml

Stability Sample: About 5280 ml

Shelf Life:

Three years from the date of manufacturing.

Note:
1. For Bullet, Filter, Supporting equipments rinsing and Filter cleaning-

- If previous product is any grade of Methanol, then perform Description, Boiling point and Weight per ml at 25°C tests as per FG specification.
- If previous product is different, then perform Description, Boiling point tests as per FG specification and calculate previous product carry over by using "Purity (By GC)" method from Raw material specification. (Limit - NMT 0.2%) QC/SPEC/METHANOL_RM/01

2. For Tanker Rinsing-

- Perform Description, Boiling point, Weight per ml at 25°C and Residual solvents (By GC) tests as per FG specification.

2. Blending and Packing-

- Perform all tests as per FG specification.
- 3. Residual solvents (By GC) test to be perform only for packing.

4. For Stability testing-

- Perform Description, Boiling point, Weight per ml at 25°C and Residual solvents (By GC) tests as per FG specification. (Stability sample quantity- About 440 ml for single analysis).

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Document number	Supersedes	Changes made	Reason for change
QC/PH-FG/SPEC/12	Rev.0	Format change – 1. General Information added. 2. History page added. 3. Reference updated	As per requirement of Schedule M. IP- 2010
	Rev.1	1. Reference updated 2. RUNA Logo inserted along with name of company	IP-2015 As per SOP of Document and Data control (Refer change control No. RCPL/CC/QC/003-15)
	Rev.2	Reference updated.	IP-2016 (Refer change control No. RCPL/CC/QC/002-16)
	Rev.3	Reference updated.	IP-2018 (Refer change control No. RCPL/CC/QC/002-18)
	Rev.4	1. Mentioned tests to be perform for Bullet Rinsing, Filter Rinsing and Tanker Rinsing. 2. Shelf Life is added.	Refer change control No. RCPL/CC/QC/003-18
	Rev.5	1. Mentioned tests to be perform for Supporting equipments 2. Quantity of Stability sample is added.	Refer Change Control No. RCPL/CC/PDN/003-18
	Rev.6	1. GAM No. Added for Boiling Point test. 2. Test wise method of analysis (MOA) is prepared. Method of Analysis No. is added.	(Refer Change Control No. RCPL/CC/QC/002-19) (Refer Change Control No. RCPL/CC/QC/003-19)
	Rev.7	1. In MOA No. QC/PH-FG/SPEC/12-01 a) Procedure is updated for addition of quantity. b) "Interpretation" is added. 2. In MOA No. QC/PH-FG/SPEC/12-02 a) 'Interpretation" term replaced "Limit" 3. In MOA No. QC/PH-FG/SPEC/12-03 a) The term "sample" replaced by "substance to be examine" b) "Limit" is added. 4. Following points are added in general information a) Quantity to be sampled is modified by adding term "About" b) Mentioned tests to be perform for	(Refer Change Control No. RCPL/CC/QC/001-20)

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QC/PH-FG/SPEC/12	Rev.7	stability testing. c) Quantity for stability sample for single analysis is added. d) Desirable pack updated for addition of HM-HDPE containers. e) Filter cleaning is added.	
	Rev.08	1) Reference updated. 2) Residual solvents (By GC) test added. 3) New MO. No.QC/PH-FG/SPEC/12-04 added.	IP - 2022 (Refer Change Control No. RCPL/CC/QC/0004-23)

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