

	Rev.13		HANOL BP -	Reference BP-2023	
FG	FG Specification No Superse		Effective date	Page No	
		Rev.12	0110112023	1 of 5	
Sr.No.	Test		Specification	Method of Analysis No.	
1	Appearance	Clear, liquid.	colourless volatile, hygroscopic	QC/PH-FG/SPEC/09-01	
2	Solubility		ole with water and with rlene chloride.	QC/PH-FG/SPEC/09-02	
3.	Boiling point	About	64°C.	QC/PH-FG/SPEC/09-03	
4	Identification a) Refractive index at	20±0.5°C 1.328	to 1.330 at 20±0.5°C	QC/PH-FG/SPEC/09-04	
	b) By IR		arison with Ph. Eur. Reference rum of methanol.	QC/PH-FG/SPEC/09-05	
5	Appearance of solution		ubstance to be examined is and colourless.	QC/PH-FG/SPEC/09-0	
6	Acidity or alkalinity	hydro	ore than 0.9 ml of 0.01M sodium in the contract of the indicator to pink.	m QC/PH-EG/SPEC/09-07	
7	Relative density at 20°	°C 0.791	to 0.793 at 20°C	QC/PH-FG/SPEC/09-08	
8	Absorbance At 230 nm At 250 nm At 270 nm At 290 nm Between 230 nm to 29	Maxin Maxin Maxin Maxin The a	num 0.01 bsorption curve should be	QC/PH-FG/SPEC/09-09	
9	Impurity A (By GC)	Onioc	num 2 ppm v/v	QC/PH-FG/SPEC/09-10	
10	Related substances (E a) Any impurity b) Total	By GC) Not m	nore than 0.1%	QC/PH-FG/SPEC/09-10	
11	Reducing substances		ink colour should not completel arged within 5 min.	y QC/PH-FG/SPEC/09-1	
12	Residue on evaporation		num 10 ppm	QC/PH-FG/SPEC/09-12	
13	Water	Maxin	num 0.10%	QC/PH-FG/SPEC/09-13	
14	Residual solvents (By a) Benzene b) Ethanol c) Acetone	Not m	nore than 2ppm v/v nore than 5000ppm v/v nore than 5000ppm v/v	QC/PH-FG/SPEC/09-14	
	PREP	ARED BY	CHECKED BY	AUTHORIZED BY	
		The state of the s	0.0	OA	

	PREPARED BY	CHECKED BY	AUTHORIZED BY
1	Q.C	Q.C	Q.A
SIGNATURE	uphabe.	(a)	Papandit .
DATE	28/12/2022	28/12/2021	29112 2022



Rev.13	METHA	Reference	
	SPECIFICATION		BP 2023
FG Specification No	Supersedes	Effective date	Page No
QC/PH-FG/SPEC/09	Rev.12	01/01/2023	2 of 5

GENERAL INFORMATION

Structure:

Molecular Formula: CH4O

H₃C — OH

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:

In an airtight container.

Handling precaution:

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

Sampling SOP:

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

Quantity to be sampled:

Analysis Sample: About 790 ml Control Sample: About 1580 ml

Stability Sample: About 7920

Shelf Life:

date of manufacturing. Three years from the

Note:

- 1. For Bullet, Filter and Supporting equipment rinsing and filter cleaning-
- > If previous product is any grade of Methanol, then perform Appearance, Solubility, Identification by Refractive index at 20±0.5°C, Absorbance and Water tests as per FG specification.
- > If previous product is different then perform Appearance, Solubility 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 Appearance, Solubility, Identification, Relative Density at 20°C, Absorbance, Impurity A (By GC), . Related substances (By GC), Residue on evaporation and Water tests as per FG specification...
- Blending and Packing-
- Perform all tests as per FG specification.
- Residual solvents (By GC) test perform only for packing.
- For Stability testing-
- Perform Appearance, Solubility, Identification, Absorbance, Impurity A (By GC), Related substances (By GC), Residue on evaporation, Residual solvents (By GC) and Water tests as per FG specification. (Stability sample quantity- About 660 ml for single analysis).



Rev.13	METHANOL BP SPECIFICATION		Reference	
			BP 2023	
FG Specification No	Supersedes	Effective date	Page No	
QC/PH-FG/SPEC/09	Rev.12	0110112023	3 of 5	

Document number	Supersedes	Changes made	Reason for change
QC/PH-FG/SPEC/09	Rev.0	Format change – 1. General Information added. 2. History page added. 3. Reference updated	As per requirement of Schedule M. BP-2013
	Rev.1	Reference updated	BP-2014
	Rev.2	Reference updated Detector temperature is reduced from 280°C to 230°C. Split ratio is adjusted from 1:20 to 1:10 RUNA Logo inserted along with the name of company	BP- 2016 Refer Change Control No. RCPL/CC/QC/015-15
	Rev.3	Reference updated For Refractive index temperature Condition is changed from 20°C to 20±0.5°C. And Mention brief procedure for Appearance of solution test	BP- 2016 Refer Change Control No. RCPL/CC/QC/015-15
	Rev.4	Reference updated	BP- 2017 Refer Change Control No. RCPL/CC/QC/010-16
	Rev.5	Reference updated	BP- 2018 Refer Change Control No. RCPL/CC/QC/006-17
R	Rev.6	 Mentioned tests to be perform for Bullet Rinsing, Filter Rinsing and Tanker Rinsing. Shelf Life is added. 	Refer Change Control No. RCPL/CC/QC/003-18
	Rev.7	Reference updated Mentioned tests to be perform for Supporting equipments Quantity of Stability sample is added.	BP-2019. Refer Change Control No RCPL/CC/QC/010-18 Refer Change Control No. RCPL/CC/PDN/003-18
	Rev.8	GAM No. Added for Boiling Point test. 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.9	Reference updated. In MOA No.QC/PH-FG/SPEC/09-01 Procedure is updated. b) "Interpretation" is added.	BP-2020 (Refer Change Control No. RCPL/CC/QC/007-19)



Rev.13	METHANOL BP SPECIFICATION		Reference	
			BP 2023	
FG Specification No	Supersedes	Effective date	Page No	
QC/PH-FG/SPEC/09	Rev.12	01/01/2023	4 of 5	

Document number	Supersedes		Changes made	Reason for change
QC/PH-FG/SPEC/09	Rev.9	3. In MOA No a) Procedure b) "Interpreta 4. In MOA No a) "Limit" is a 5. In MOA No a) Procedure range 6. In MOA No a) "Interpreta 7. In MOA No a) Solution pi b) The term " "substance b) "Limit" is a 9. In MOA No a) The "samp "substance b) "Limit" is a 9. In MOA No a) In corpo and de alls bet b) The term " "Limit" 10. In MOA No a) Chromatog updated for Column flor flow, Air flo b) Procedure "Test soluti 11. In MOA No a) Chromatog updated for Column flor flow, Air flo b) Procedure "Test soluti 11. In MOA No a) Solution pr b) The term "s "substance 12. In MOA No a) The term "s "substance b) "Limit" is ac 13. In MOA No a) The term "s "substance b) "Limit" is ac 13. In MOA No a) The term "s	is updated. ation" is added. b. QC/PH-FG/SPEC/09-04 added. c. QC/PH-FG/SPEC/09-05 a is updated for spectrum b. QC/PH-FG/SPEC/09-06 ation" is added. c. QC/PH-FG/SPEC/09-07 b. QC/PH-FG/SPEC/09-07 ceparation is updated. c. QC/PH-FG/SPEC/09-07 ceparation is updated. c. QC/PH-FG/SPEC/09-08 ce to be examine" c. QC/PH-FG/SPEC/09-09 cent of spectrum nature deded. c. QC/PH-FG/SPEC/09-10 graphic condition is predicted by condition of Auxiliary gas, conditi	TY TY



Rev.13	METHA	Reference	
	SPECIFICATION		BP 2023
FG Specification No	Supersedes	Effective date	Page No
QC/PH-FG/SPEC/09	Rev.12	0110112023	5 of 5

Document number	Supersedes	Changes made	Reason for change
QC/PH-FG/SPEC/09	Rev.9	general information. a) Quantity to be sampled is modified by adding term "About" b) Mentioned tests to be perform for stability testing. c) Quantity for stability sample for single analysis is added. d) Desirable pack updated for addition of HM-DHPE containers. e) Filter cleaning is added.	
	Rev.10	Reference updated.	BP-2021 (Refer Change Control No. RCPL/CC/QC/001-21)
R	Rev.11	1. Reference updated. 2. In MOA No. QC/PH-FG/SPEC/09-03 "It is flammable" is removed. 3. In MOA No. QC/PH-FG/SPEC/09-10 chromatographic condition is updated for addition of Injection mode, Total Flow and Pressure. Precedure is updated for injection sequence. 4. Residual solvents (B) GC) test is added a solvent of the s	BP-2022 (Refer Change Control No RCPL/CC/QC/004-21)
7	Rev.12	Reference updated.	BP-2023 (Refer Change Control No. RCPL/CC/QC/009-22