



S.P.Y. Agro

S.P.Y. Agro Industries Limited

CIN No.: U01100TG2005PLC045887

Date : 30.10.19

CERTIFICATE OF ANALYSIS(High grade Absolute Alcohol)

Product / Material Name	Absolute Alcohol (High Grade)	Product / Material Code	ETHANOL 99.8% V/V
Specification Id	SPY-AA-ST03	Revision No.	3010
Batch No	30102019-ST-03	Manufacture Date.	28-10-2019
Change Control No.	ST- 03	Expire Date.	28-10-2022

S. No.	Test	Specification	Result
1	Description	Colourless, clear, volatile, flammable liquid, Hygroscopic. It burns with a blue, smokeless flame	Colourless, clear, volatile, flammable liquid, Hygroscopic. It burns with a blue, smokeless flame
2	Solubility	Miscible with water and with Methylene chloride	Miscible with water and with Methylene chloride
3	Boiling Point	About 78°C	78°C
4	Appearance	The solution should be clear and colourless when compared with water. 1 ml of this solution diluted to 20 ml with water after standing for 5 minutes should be clear when compared with water.	Complies
5	Ethanol purity by GC	Not less than 99.8%	99.92
6	Acidity or Alkalinity(as Acetic acid)	Not more than 30 ppm	06 ppm
7	Relative Density (At 20°C)	Between 0.791 and 0.790	0.791
8	Absorbance		
8.1	Absorbance at 240 nm	Not more than 0.40	0.28
8.2	Absorbance between 250 and 260 nm	Not more than 0.30	0.18
8.3	Absorbance between 270 and 340 nm	Not more than 0.10	0.05
9	Volatile Impurities (By GC)		
9.1	Methanol	Not more than 200 ppm v/v	12 ppm
9.2	Acetaldehyde and Acetal (Expressed as Acetaldehyde)	Not more than 10 ppm v/v	4 ppm
9.3	Benzene	Not more than 2 ppm v/v	Nil
9.4	Total other Impurities	Not more than 300 ppm v/v	20 ppm
10	Residue on evaporation	Not more than 25 ppm m/v	10 ppm
11	Moisture Content	Not more than 0.2% w/v	0.18

Note : The above all Results are meet to the USP/EP Monographs.

	Prepared By	Checked By	Approved By
Name	B. Namadhilety	E. Haribabu.	D. Ismail
Signature.			
Date	30/10/2019	30-10-2019.	30/10/19

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