



Commercial Alcohols
A Trade Name of GreenField Specialty Alcohols Inc.


Packaging - Brampton
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Brampton, Ontario, L6T 3Y4
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Manufacturing - Chatham
275 Bloomfield Rd.
Chatham, Ontario, N7M 5J5
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Manufacturing - Tiverton
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Quebec Sales
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Quality Assurance Department
CERTIFICATE OF ANALYSIS

ISOPROPYL ALCOHOL I.P.A. 99% USP			Location shipped from: Brampton, ON
Lot #:	16345		
Item #:	P210IP99		
Test	Units	Method	Specification
Isopropyl alcohol, Assay %		Gas Chromatography	Not less than 99.85
Volatile impurities, each individual impurity, %			Not more than 0.1
Specific gravity in air, at 25 / 25 C		USP Monograph Physical Test Method 841	0.783 to 0.787
IDENTIFICATION - Infrared absorption		Current USP	Conforms to standard
Acidity as Acetic Acid, mg / 100mL		ASTM D 1613-96	1.68 max.
Acidity, mL		Current USP	Not more than 0.7 mL of 0.02 N sodium hydroxide to neutralize 50 mL sample
Water content, v/v%		Karl Fisher Titration	0.32 max.
Nonvolatile residue, % w/v		Current USP	Not more than 2.5 mg / 50 mL sample (0.005%)
Refractive index, at 20 C		Current USP	1.376 to 1.378
Remarks:		Type of Packaging	
		Glass	
		HDPE	
		X Unlined carbon steel	
		Expiration Date (MMM/YYYY)	
		Apr/2016	
Workbook Reference:		Disposition:	
03041410		Released X	
Analyst(s):		Rejected	
DV/KS			
Approved by: J.O.		Release Date: 08-Apr-14	
Effective Date: Feb. 10, 2014		 Q.A. D. Peele	
Supersedes: Oct. 21, 2008			
Revision #: 6			