



## Sales Specification

### Denatured Ethanol DEB 100 (Pharma grade.)

Product Name: ALCOH - AAA

CAS No.: 64-17-5

TEST	REQUIREMENT	METHOD
Assay at 20 °C	99.5 % v/v min	BP 2013
Appearance	Clear and colorless liquid	BP 2013
Solubility	Conforms to BP 2013	BP 2013
Identification	Conforms to BP 2013	BP 2013
Acedity or alkalinity	Conforms to BP 2013	BP 2013
Relative density at 20 °C	0.790 - 0.793	BP 2013
Residue on evaporation	Not more than 25 ppm	BP 2013
Absorbance		BP 2013
At 240 nm	Not more than 0.40	
Between 250 nm and 260 nm	Not more than 0.30	
Between 270 nm and 340 nm	Not more than 0.10	
Volatile impurities		BP 2013
Acetaldehyde and Acetal	Not more than 10 ppm	
Benzene	Not more than 2 ppm	
Methanol	Not more than 200 ppm	
Total of other impurities	Not more than 300 ppm	
Tertiary Butyl Alcohol	0.13 - 0.17 ppm	
Bitrex	8 - 12 ppm	

Refer to Thai Industrial Standard : Ethanol for Pharmaceutical Use. (TIS.640 BOOK1-2553)

British Pharmacopia 2013.

[www.bkkalcohol.com](http://www.bkkalcohol.com)

**Apex Alco Co., Ltd.**  
632 Bangkhoontian-Shinetalay Rd., Thakarm,  
Bangkhoontian, Bangkok 10150, Thailand.  
Tel.+66 2416 4677-8 Fax.+66 2416 4679

**บริษัท เอเพ็กซ์ แอลกอฮอล์ จำกัด**  
632 ถนนบางขุนเทียน-ราชเทวี แขวงท่าข้าม  
เขตบางขุนเทียน กรุงเทพมหานคร 10150  
โทร.+66 2416 4677-8 โทรสาร.+66 2416 4679