

<b>PRODUCT</b>	<b>HP EXTRA NEUTRAL POTABLE ETHANOL – C<sub>2</sub>H<sub>5</sub>OH</b>
<b>SPECIFICATION REFERENCE</b>	<b>E23/S2</b>

**DESCRIPTION:** A high purity, natural alcohol derived from sugar cane

TEST	UNITS	SPECIFICATION LIMIT
<b>Appearance</b>		The material shall be clear, colourless and free from suspended matter.
<b>Alcohol Content</b>	% v/v at 20°C	96,4 (Min)
<b>Odour and taste</b>		Pure, Neutral
<b>Density</b>	kg/m <sup>3</sup> at 20°C	805,8 (Max)
<b>Density</b>	kg/m <sup>3</sup> at 25°C	801,6 (Max)
<b>Relative Density</b>	g/cm <sup>3</sup>	0.805 – 0.812
<b>Residue on Evaporation</b>	ppm (m/v)	15 (Max)
<b>Water miscibility</b>		Complete
<b>Esters</b>	ppm (m/m) as Ethyl Acetate	10 (Max)
<b>Acidity</b>	ppm (m/m) as Acetic acid	15 (Max)
<b>Permanganate Time (Barbet)</b>	Minutes	30 (Min)
<b>Aldehydes</b>	ppm (m/m) as Acetaldehyde	1 (Max)
<b>Methyl Alcohol</b>	ppm (m/m)	< 2.5
<b>Higher Alcohols (GC)</b>	ppm (m/m) as N-Propanol, Iso-Butanol, N-Butanol and Iso-Amyl alcohol	1 (Max) in total
<b>Furfural</b>	ppm (m/m)	1 (Max)
<b>Absorbance</b>		The absorbance curve is smooth 0.4 (Max) @ 240nm 0.3 (Max) @ 250nm to 260nm 0.1 (Max) @ 270nm to 340nm
<b>Diacetyl</b>	ppm (m/v)	0.03 (Max)
<b>Pentanedione</b>	ppm (m/v)	0.06 (Max)

Product complies with the BP 2018, EP 9.0 (01:2015:1317) , USP 41 and FCC 10

<b>REVIEWED BY:</b>	L. Mudaly (SHEQ Manager)	<b>DATE:</b>	April 2019
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