

## SPECIFICATION

Ethanol (99.5)  
Super Special Grade

REQUIREMENT	SPECIFICATION
Appearance	Colorless clear liquid
Solubility in water	to pass test
Density (20°C)	0.789~0.791g/mL
Absorbance (255nm)	max.0.02
Water	max.0.1%
Residue after evaporation	max.4ppm
Acidity (as CH <sub>3</sub> COOH)	max.5ppm
Alkalinity (as NH <sub>3</sub> )	max.0.5ppm
Heavy metals (as Pb)	max.0.2ppm
Aldehydes and ketones (as CH <sub>3</sub> COCH <sub>3</sub> )	max.4ppm
Benzene and other organic impurities	to pass test (as C <sub>6</sub> H <sub>6</sub> :max. about 0.001%)
Fusel oil (as C <sub>5</sub> H <sub>12</sub> O)	max.0.004%
Methanol (CH <sub>3</sub> OH)	max.0.02%
Substances darkened by diphenylcarbazide	to pass test
Substances darkened by sulfuric acid	to pass test
Substances reducing permanganate	to pass test (as O:max. about 3ppm)
Practical test for ethanolic KOH solution	to pass test
Gas chromatography test	to pass test
Assay (capillary GC)	min.99.9%