

## SPECIFICATION

## Ethanol (99.5)

for RoHSII

REQUIREMENT	SPECIFICATION
Appearance	Colorless clear liquid
Assay (C <sub>2</sub> H <sub>5</sub> OH) (GC)	min.99.5%(mass/mass)
Density (20°C)	0.789~0.791g/ml
Water	max.0.2%(mass/mass)
Residue after evaporation	max.5ppm(mass/mass)
Acidity (as CH <sub>3</sub> COOH)	max.0.002%(mass/mass)
Alkalinity (as NH <sub>3</sub> )	max.1ppm(mass/mass)
Aldehydes and ketones (as CH <sub>3</sub> COCH <sub>3</sub> )	max.0.001%(mass/mass)
Methanol (CH <sub>3</sub> OH)	max.0.02%(mass/mass)
2-Propanol [(CH <sub>3</sub> ) <sub>2</sub> CHOH]	max.0.01%(mass/mass)
1-Propanol (CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> OH)	max.0.005%(mass/mass)
1-Butanol [CH <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> CH <sub>2</sub> OH]	max.0.005%(mass/mass)
Substances reducing permanganate	to pass test
Substances darkened by sulfuric acid	to pass test
Cadmium (Cd) (RoHS)	max.10ppm
Mercury (Hg) (RoHS)	max.10ppm
Lead (Pb) (RoHS)	max.100ppm
Chromium (Cr) (RoHS)	max.10ppm
Brominated flame retardants (as Br) (RoHS)	max.1ppm
Diisobutyl phthalate (DIBP) (RoHS)	max.1ppm
Dibutyl phthalate (DBP) (RoHS)	max.1ppm
Butyl benzyl phthalate (BBP) (RoHS)	max.1ppm
Bis(2-ethylhexyl) phthalate (DEHP) (RoHS)	max.1ppm