

## SPECIFICATION

## Ethanol(95)

## Extra Pure

REQUIREMENT	SPECIFICATION
* Appearance	Colorless clear liquid
Assay (C <sub>2</sub> H <sub>5</sub> OH)(by density)	94.8~95.8vol%
Density (20°C)	0.808~0.812g/ml
Residue after evaporation	max.0.003%(mass/mass)
Acidity (as CH <sub>3</sub> COOH)	max.0.002%(mass/mass)
Alkalinity (as NH <sub>3</sub> )	max.1ppm(mass/mass)
Heavy metals (as Pb)	max.1ppm(mass/mass)
Aldehydes and ketones (as CH <sub>3</sub> COCH <sub>3</sub> )	max.0.001%(mass/mass)
1-Butanol [CH <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> CH <sub>2</sub> OH](GC)	max.0.005%(mass/mass)
1-Propanol (CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> OH) (GC)	max.0.005%(mass/mass)
2-Propanol [(CH <sub>3</sub> ) <sub>2</sub> CHOH] (GC)	max.0.01%(mass/mass)
Methanol (CH <sub>3</sub> OH) (GC)	max.0.02%(mass/mass)
3-Methyl-1-butanol [(CH <sub>3</sub> ) <sub>2</sub> CHCH <sub>2</sub> CH <sub>2</sub> OH] (GC)	max.0.004%(mass/mass)
Substances darkened by sulfuric acid	to pass test

JIS K 8102-2012

(\*:Additional test performed by Wako but not required by JIS)