

## Functional Chemical

### TMAH-238 Tetramethylammonium hydroxide aqueous

#### TYPICAL PROPERTIES

<b>CAS No.</b>	75-59-2/10424-65-4		
<b>Chemical formula</b>	$(\text{CH}_3)_4\text{NOH} \cdot 5\text{H}_2\text{O}$		
<b>Appearance</b>	Colorless transparent liquid		
<b>Specific Gravity @ 20°C</b>	1.021		
<b>Item</b>	<b>Unit</b>	<b>Min</b>	<b>Max</b>
Assay	%	2.378	2.382
Color	Hazen		5
$\text{CO}_3^{2-}$ (Carbonate)	ppm		80
$\text{Cl}^-$ ( Chloride )	ppm		0.1
$\text{CH}_3\text{OH}$ (Methanol)	ppm		40
Li (Lithium)	ppb		5
Na (Sodium)	ppb		10
Mg (Magnesium)	ppb		5
Al (Aluminum)	ppb		10
K (Potassium)	ppb		10
Ca (Calcium)	ppb		10
Cr (Chromium)	ppb		5
Mn (Manganese)	ppb		5
Fe (Iron)	ppb		5
Ni (Nickel)	ppb		5
Co (Cobalt)	ppb		5
Cu (Copper)	ppb		5
Zn (Zinc)	ppb		5
Mo (Molybdenum)	ppb		5
Cd (Cadmium)	ppb		5
Pb (Lead)	ppb		5
Ag (Silver)	ppb		5
Particle >0.5um	Ea/ml		100

## APPLICATION

- Brightener cleaner and touch cutting agent for computer silicon wafer surface during the production of silicon wafer.
- Widely used in electronic industry, especially as positive resister developer, silicon wafer wet etchant and super clean solution for CMP process. Also used in the manufacture of integrated circuits, liquid crystal displays, printed circuit boards, capacitors, sensors, and many other electronic components.

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## STORAGE

## AND

## HANDLING

- Available in 25 kg/barrel
  - Store products in tightly closed original containers at 5-40°C
  - Shelf life: 12 months from delivery date
  - According to non-dangerous goods transport
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