



CHOLINE CHLORIDE TECHNICAL DATA SHEET

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CHOLINE CHLORIDE LIQUID (FEED GRADE)

ITEM	70% Aqueous	75% Aqueous	78% Aqueous
Package	200KG~230KG/200L PE Drum 1000~1100KG/1000L (265 US GAL) IBC Tank 18~23MT/Flexitank or Flexibag		
pH Value (20℃)	7.0~9.0		
Appearance	Colorless & Transparent Aqueous Liquid		
Choline chloride/%	Min 70	Min 75	Min 78
Evaluate as Choline Hydroxide/%	60.5	64.9	67.5
Evaluate as Choline Ion/%	52.0	55.7	58.0
Ethylene Glycol/%	Max 0.05		
Specific gravity	1.090~1.095	1.095~1.100	1.095~1.100
Ash/%	Max 0.2		
Trimethylamine residual/ppm Free Amine (As TMA)/ppm	Max 150		
Urotropine	No Detected		
Heavy Metal	Lead (Pb)/ppm	Max 10	
	Cadmium (Cd)/ppm	Max 1	
	Mercury (Hg)/ppm	Max 0.05	
	Arsenic(As)/ppm	Max 10	
	Total (As Pb)/ppm	Max 20	
Dioxins/ppt	Max 1		

- ❖ No un-allowed materials according to <Catalogue of feed materials>(COMMISSION REGULATION (EU)NO. 68/2013)
- ❖ Test results are influenced by different method.