



◀ 外观：无色透明或略带浅色稠状液体

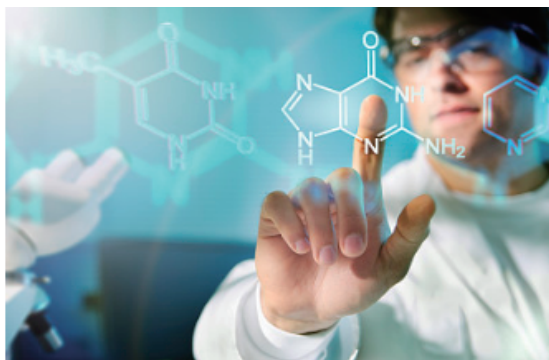
包装：
35 公斤塑料桶
330 公斤塑料桶
IBC 桶
ISO TANK
散装

◀ 用途：可用于调味剂：用于罐头、液体、固体饮料和清凉饮料的酸味剂，可代替柠檬酸、苹果酸；在啤酒糖化过程中，可以代替乳酸来调pH值；制糖工业上作蔗糖的澄清剂；酿酒用于酵母营养剂，防止杂菌繁殖；面粉用于改良剂，同时也广泛用于高精度电子工业，医药工业等。

» 食品级磷酸

质量技术指标（参照GB 1886.15-2015）

项目		指标
磷酸 (H ₃ PO ₄) 含量, ω/%		75.0 ~ 86.0
氟化物 (以F计) / (mg/kg)	≤	10
易氧化物 (以H ₃ PO ₃ 计), ω/%	≤	0.012
砷 (As) / (mg/kg)	≤	0.5
重金属 (以Pb计) / (mg/kg)	≤	5.0
可按客户指定浓度和指标生产		



« Appearance: Colorless transparent or slightly pale thick liquid.

Packing:
35KG plastic drum
330KG plastic drum
IBC drum
ISO TANK or bulk

« Applications: Flavoring agent: sour agent in tins, liquid or solid beverage and cold drink, substitute of citric acid and apple acid; substitute of lactic acid to adjust the pH value in the process of saccharification of beer;
A clarification agent in the sugar industry;
Yeast nutrients in brewery industry which can prevent the growth of miscellaneous bacteria; a modifier for flour, it is also widely used in high-precision electronics industry, medicine industry and so on.

» Phosphoric acid food grade Specification(refer to GB 1886.15-2015)

Item		Specification
Main content as H_3PO_4 , $\omega/\%$		75.0 ~ 86.0
Fluoride as F, mg/kg	\leq	10
Easy oxide as H_3PO_3 , $\omega/\%$	\leq	0.012
Arsenic as As, mg/kg	\leq	0.5
Heavy metal as Pb, mg/kg	\leq	5.0
Could be customized		



◀ 外观：白色颗粒结晶

包装：25千克 /包;50千克 /包

◀ 用途：

农业：磷酸一铵是一种水溶性速效磷氮复合肥，是高浓度磷复合肥的主要品种之一。该产品一般做追肥，也是生产三元复混肥、BB肥最主要的基础原料。

工业：用于阻燃剂，具有较好的防火性能；也可用于生物发酵工业的菌种营养剂；也作为锂电池原材料。

工业级磷酸二氢铵 (参照HG/T 4133-2010)

食品级磷酸二氢铵 (参照GB 25569-2010)

项目	指标			
	I 类	工业级 II类	III类	食品级
主含量 (以 $\text{NH}_4\text{H}_2\text{PO}_4$ 计) / ($\omega\%$)	≥ 98.5	98.0	96.0	96.0 ~ 102.0
主含量 (以 P_2O_5 计) / ($\omega\%$)	≥ 60.8	60.5	59.2	—
总氮 (以N计) / ($\omega\%$)	≥ 11.8	11.5	11.0	—
砷 (As) / ($\omega\%$)	≤ 0.005	—	—	0.0003
氟化物 (以F计) / ($\omega\%$)	≤ 0.02	—	—	0.001
硫酸盐(以 SO_4 计)/ ($\omega\%$)	≤ 0.9	1.2	—	—
水/ ($\omega\%$)	≤ 0.5	0.5	1.0	—
水不溶物/ ($\omega\%$)	≤ 0.1	0.3	0.6	—
pH值 (10g/L溶液)	4.2 ~ 4.8	4.0 ~ 5.0	4.0 ~ 5.0	4.3 ~ 5.0
重金属(以Pb计)/ ($\omega\%$)	\leq —	—	—	0.001
铅含量 (Pb) / ($\omega\%$)	\leq —	—	—	0.0004



◀ Appearance : White grain crystal

Packing : 25kg/bag; 50kg/bag

◀ Applications :
Agriculture: It is a quick-acting water soluble compound fertilizer of phosphorus and nitrogen. It is one of the main phosphorus compound fertilizers of high concentration, as well as a most mainly basic raw material for three element compound fertilizer and BB fertilizer. Normally it is used as an additional fertilizer.
Industry: Be good performance for fire prevention, it is used as a flame retardant. In biological fermentation industry, it is a strain nutritional agent. Also it is a raw material for lithium battery.

Monoammonium phosphate technical grade (refer to HG/T 4133-2010)

Monoammonium phosphate food grade (refer to GB 25569-2010)

Item	Specification			
	Technical grade			Food grade
	I	II	III	
Main Content as $\text{NH}_4\text{H}_2\text{PO}_4$ / ($\omega/\%$) \geq	98.5	98.0	96.0	96.0 ~ 102.0
Phosphorus pentoxide as P_2O_5 / ($\omega/\%$) \geq	60.8	60.5	59.2	—
Nitrogen as N, ($\omega/\%$) \geq	11.8	11.5	11.0	—
Arsenic as As, ($\omega/\%$) \leq	0.005	—	—	0.0003
Fluoride as F, ($\omega/\%$) \leq	0.02	—	—	0.001
Sulphate as SO_4 , ($\omega/\%$) \leq	0.9	1.2	—	—
Water as H_2O , ($\omega/\%$) \leq	0.5	0.5	1.0	—
Water insoluble, ($\omega/\%$) \leq	0.1	0.3	0.6	—
pH Value, (10g/L)	4.2 ~ 4.8	4.0 ~ 5.0	4.0 ~ 5.0	4.3 ~ 5.0
Heavy metal as Pb / ($\omega/\%$) \leq	—	—	—	0.001
Lead as Pb / ($\omega/\%$) \leq	—	—	—	0.0004



Applications: Pre-treatment chemicals for metal surfaces; Chemical polishing for stainless steel, aluminum profile and electronics ; As the product of phosphate raw material, catalyst of organic reaction, additional agent of refractory, activated carbon treatment agent and so on.

➤➤ **Phosphoric acid technical grade** Specification (refer to GB/T 2091-2008)

Item		Specification					
		85%			75%		
		High-grade	First-grade	Qualified	High-grade	First-grade	Qualified
Chromaticity (Hazen)	≦	20	30	40	20	30	40
Main content as H ₃ PO ₄ , ω/%	≧	85.0	85.0	85.0	75.0	75.0	85.0
Chloride as Cl ⁻ , ω/%	≦	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Sulphate as SO ₄ ²⁻ , ω/%	≦	0.003	0.005	0.01	0.003	0.005	0.01
Iron as Fe, ω/%	≦	0.002	0.002	0.005	0.002	0.002	0.005
Arsenic as As, ω/%	≦	0.0001	0.005	0.01	0.0001	0.005	0.01
Heavy metal as Pb, ω/%	≦	0.001	0.001	0.005	0.001	0.001	0.005
Could be customized							



◀ 外观：
I类：均匀的白色固体粉末或颗粒，
无可视机械杂质
II类：均匀流体
包装：25千克 /包;50千克 /包

◀ 用途：用于肥料以及工业防火涂料

➤ 农用级聚磷酸铵 质量技术指标

项目		指标			
		I类		II类	
		一等品	合格品	一等品	合格品
总养分 ($N+P_2O_5$) 的含量/%	≥	76	62	48	44
总磷 (P_2O_5) 含量/%	≥	58	46	37	34
总氮 (N) 含量/%	≥	12	12	11	10
聚合率/%	≥	90	70	70	70
水不溶物/%	≤	0.1	0.2	0.1	0.2
缩二脲 ($C_2H_5N_3O_2$) 含量/%	≤	1.0	1.5	0.5	1.0
pH值 (10g/L水溶液)		6~8	6~9	6~8	6~9
汞 (Hg) /(mg/kg)	≤	5	5	5	5
砷 (As) /(mg/kg)	≤	50	50	50	50
镉 (Cd) /(mg/kg)	≤	10	10	10	10
铅 (Pb) /(mg/kg)	≤	50	50	50	50
铬 (Cr) /(mg/kg)	≤	150	150	150	150



« Appearance :
I : White solid powders or granules,
no visible mechanical impurities;
II: Fluid
Packing : 25kg/bag; 50kg/bag

« Applications : Mainly used in Industrial
fertilizers and fire retardant coatings.

Ammonium polyphosphate for agricultural use

Item	Specification				
	I		II		
	First-grade	Qualified	First-grade	Qualified	
Total nutrient as ($N+P_2O_5$) /%	≥	76	62	48	44
Total phosphorus as P_2O_5 /%	≥	58	46	37	34
Total Nitrogen as N /%	≥	12	12	11	10
Polymerization rate /%	≥	90	70	70	70
Water insoluble /%	≤	0.1	0.2	0.1	0.2
Biuret as $C_2H_5N_3O_2$ /%	≤	1.0	1.5	0.5	1.0
pH Value (10g/L)		6~8	6~9	6~8	6~9
Mercury as Hg/(mg/kg)	≤	5	5	5	5
Arsenic as As/(mg/kg)	≤	50	50	50	50
Cadmium as Cd/(mg/kg)	≤	10	10	10	10
Lead as Pb/(mg/kg)	≤	50	50	50	50
Chromium as Cr/(mg/kg)	≤	150	150	150	150



◀ 外观：无色透明或略带浅色稠状液体

包装：
35 公斤塑料桶
330 公斤塑料桶
IBC 桶
ISO TANK

◀ 用途：广泛应用于超大规模集成电路、大屏幕液晶显示器等微电子行业，主要用于芯片的湿法清洗和湿法蚀刻，包括基片涂胶前的清洗；光刻过程中的蚀刻及最终去胶；硅片本身制作过程中的清洗和绝缘膜蚀刻、半导体膜蚀刻、有机材料蚀刻等

➤ 电子级磷酸

质量技术指标（参照GB/T 28159-2011）

项目	E1
磷酸(H_3PO_4)质量分数(85% Y(%))	85 ~ 87
易氧化物(以 H_3PO_3)质量分数/%	≤ 0.005
硝酸盐(NO_3^-)质量分数/(mg/kg)	≤ 5.0
硫酸盐(SO_4^{2-})质量分数/(mg/kg)	≤ 10
氯化物(Cl)质量分数/(mg/kg)	≤ 1.0
铝(Al)质量分数/(ug/kg)	≤ 200
硼(B)质量分数/(ug/kg)	≤ —
锑(Sb)质量分数/(ug/kg)	≤ 3000
砷(As)质量分数/(ug/kg)	≤ 100
钡(Ba)质量分数/(ug/kg)	≤ 100
镉(Cd)质量分数/(ug/kg)	≤ 100
钙(Ca)质量分数/(ug/kg)	≤ 1000
铬(Cr)质量分数/(ug/kg)	≤ 100
钴(Co)质量分数/(ug/kg)	≤ 100
铜(Cu)质量分数/(ug/kg)	≤ 50
镓(Ga)质量分数/(ug/kg)	≤ 100

项目	E1
金(Au)质量分数/(ug/kg)	≤ 100
铁(Fe)质量分数/(ug/kg)	≤ 300
铅(Pb)质量分数/(ug/kg)	≤ 100
锂(Li)质量分数/(ug/kg)	≤ 100
镁(Mg)质量分数/(ug/kg)	≤ 100
锰(Mn)质量分数/(ug/kg)	≤ 100
镍(Ni)质量分数/(ug/kg)	≤ 100
钾(K)质量分数/(ug/kg)	≤ 100
银(Ag)质量分数/(ug/kg)	≤ 100
钠(Na)质量分数/(ug/kg)	≤ 500
锡(Sn)质量分数/(ug/kg)	≤ —
锶(Sr)质量分数/(ug/kg)	≤ 100
钛(Ti)质量分数/(ug/kg)	≤ 100
锌(Zn)质量分数/(ug/kg)	≤ 100
颗粒(粒径,数量)/(um,pcs/mL)	≤ —



« Appearance: Colorless transparent or slightly pale thick liquid.

Packing:
35KG plastic drum
330KG plastic drum
IBC drum
ISO TANK or bulk

« Applications: Widely used in microelectronics industries to make large integrated circuit, large screen LCD, etc., mainly used to do wet process clean and wet etching, which includes cleaning before gluing the substrate, etching and stripping of photoresist during the lithography. In silicon wafer production, it is used in cleaning, insulating film etching, semiconductor film etching, conductor film etching and organic material etching, etc

» Electronic grade phosphoric acid

Specification(refer to GB/T 28159-2011)

Item	E1
Mass fraction of Phosphoric acid(H_3PO_4) 85% γ (%)	85 ~ 87
Mass fraction of Easy oxide (as H_3PO_3)/%	\leq 0.005
Mass fraction of Nitrate (NO_3)/(mg/kg)	\leq 5.0
Mass fraction of Sulfate(SO_4^{2-})/(mg/kg)	\leq 10
Mass fraction of Chloride(Cl)/(mg/kg)	\leq 1.0
Mass fraction of Aluminum(Al)/(ug/kg)	\leq 200
Mass fraction of Boron(B)/(ug/kg)	\leq —
Mass fraction of Antimony(Sb)/(ug/kg)	\leq 3000
Mass fraction of Arsenic(As)/(ug/kg)	\leq 100
Mass fraction of Barium(Ba)/(ug/kg)	\leq 100
Mass fraction of Cadmium (Cd)/(ug/kg)	\leq 100
Mass fraction of Calcium(Ca)/(ug/kg)	\leq 1000
Mass fraction of Chromium (Cr)/(ug/kg)	\leq 100
Mass fraction of Cobalt (Co)/(ug/kg)	\leq 100
Mass fraction of Copper (Cu)/(ug/kg)	\leq 50
Mass fraction of Gallium (Ga)/(ug/kg)	\leq 100

Item	E1
Mass fraction of Gold (Au)/(ug/kg)	\leq 100
Mass fraction of Iron (Fe)/(ug/kg)	\leq 300
Mass fraction of Lead (Pb)/(ug/kg)	\leq 100
Mass fraction of Lithium (Li)/(ug/kg)	\leq 100
Mass fraction of Magnesium (Mg)/(ug/kg)	\leq 100
Mass fraction of Manganese (Mn)/(ug/kg)	\leq 100
Mass fraction of Nickel (Ni)/(ug/kg)	\leq 100
Mass fraction of Potassium (K)/(ug/kg)	\leq 100
Mass fraction of Silver (Ag)/(ug/kg)	\leq 100
Mass fraction of Sodium (Na)/(ug/kg)	\leq 500
Mass fraction of Tin (Sn)/(ug/kg)	\leq —
Mass fraction of Strontium (Sr)/(ug/kg)	\leq 100
Mass fraction of Titanium (Ti)/(ug/kg)	\leq 100
Mass fraction of Zinc (Zn)/(ug/kg)	\leq 100
Particle (particle size, quantity)/(um,pcs/mL)	\leq —



◀ 外观：白色颗粒结晶

包装：5千克/包
10千克/包
25千克/包

◀ 用途：

工业：可用作制造偏磷酸钾和其他钾盐的原料；酿造酵母的培养液、强化剂、膨松剂和发酵助剂等。发酵工业中，用作细菌培养剂、缓冲调节剂和营养剂。

农业：用作高效磷钾复合肥，优质无氯钾肥，既提供磷也提供钾，适用于各种土壤和各类型经济作物。

肥料级磷酸二氢钾(参照HG/T 2321-2016)

食品级磷酸二氢钾(参照GB 25560-2010)

项目	指标			
	优等品	一等品	合格品	食品级
磷酸二氢钾 (KH ₂ PO ₄) 的质量分数 (%)	≥ 98.0	≥ 96.0	≥ 94.0	≥ 98.0
水溶物五氧化二磷 (P ₂ O ₅) 的质量分数 (%)	≥ 51.0	≥ 50.0	≥ 49.0	—
氧化钾 (K ₂ O) 的质量分数 (%)	≥ 33.8	≥ 33.2	≥ 30.5	—
水份 (%)	≤ 0.5	≤ 1.0	≤ 1.5	—
氯化物 (Cl) 的质量分数 (%)	≤ 1.0	≤ 1.5	≤ 3.0	—
水不溶物的质量分数 (%)	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.2
pH值	4.3 ~ 4.9	4.3 ~ 4.9	4.3 ~ 4.9	4.2 ~ 4.7
砷及其化合物的质量分数 (以As计) / (%)	≤ 0.0050	≤ 0.0050	≤ 0.0050	—
镉及其化合物的质量分数 (以Cd计) / (%)	≤ 0.0010	≤ 0.0010	≤ 0.0010	—
铅及其化合物的质量分数 (以Pb计) / (%)	≤ 0.0200	≤ 0.0200	≤ 0.0200	—
铬及其化合物的质量分数 (以Cr计) / (%)	≤ 0.0500	≤ 0.0500	≤ 0.0500	—
汞及其化合物的质量分数 (以Hg计) / (%)	≤ 0.0005	≤ 0.0005	≤ 0.0005	—
砷(As) / (mg/kg)	≤ 3	≤ 3	≤ 3	≤ 3
重金属(以Pb计) / (mg/kg)	≤ 10	≤ 10	≤ 10	≤ 10
铅含量(Pb) / (mg/kg)	≤ 2	≤ 2	≤ 2	≤ 2
氟化物 (以F计) / (mg/kg)	≤ 10	≤ 10	≤ 10	≤ 10
干燥减量 (ω/%)	≤ 1	≤ 1	≤ 1	≤ 1



◀ Appearance : White grain crystal

Packing : 5kg/bag
10kg/bag
25kg/bag

◀ Applications :
Industry: Raw material to manufacture potassium metaphosphate and other sylvite, It is the culture fluid, enhancer, leavening agents, fermentation promoter and so on for brewing yeast, In fermentation industry, it is used as bacterial culture agent, buffer regulator or nutrient agent.
Agriculture: As a high efficient compound fertilizer of phosphorus and potassium, it is a potash fertilizer without chlorine. It provides both phosphorus and potassium for various kinds of soil and cash crops.

Monopotassium phosphate fertilizer grade (refer to HG/T 2321-2016)

Monopotassium phosphate food grade (refer to GB 25560-2010)

Item	Specification				
	Fertilizer grade			Food grade	
	High-grade	First-grade	Qualified		
Mass fraction of KH_2PO_4 , (%)	≥	98.0	96.0	94.0	98.0
Mass fraction of P_2O_5 , (%)	≥	51.0	50.0	49.0	——
Mass fraction of K_2O , (%)	≥	33.8	33.2	30.5	——
Water as H_2O , (%)	≤	0.5	1.0	1.5	——
Mass fraction of Cl, (%)	≤	1.0	1.5	3.0	——
Mass fraction of Water insoluble, (%)	≤	0.3			0.2
pH Value		4.3 ~ 4.9			4.2 ~ 4.7
Mass fraction of Arsenic and its compounds as As/(%)	≤	0.0050			——
Mass fraction of Cadmium and its compounds as Cd/(%)	≤	0.0010			——
Mass fraction of Lead and its compounds as Pb/(%)	≤	0.0200			——
Mass fraction of Chromium and its compounds as Cr/(%)	≤	0.0500			——
Mass fraction of Mercury and its compounds as Hg/(%)	≤	0.0005			——
Arsenic as As/ (mg/kg)	≤	——			3
Heavy Metal as Pb/ (mg/kg)	≤	——			10
Lead as Pb/ (mg/kg)	≤	——			2
Fluoride as F/ (mg/kg)	≤	——			10
Loss on drying, (ω/%)	≤	——			1



Applications: It is widely used in many industries, like pharmaceuticals, spice, leatherwear, chemical and so on. In organic synthesis, it performs as a compound cyclization agent, acidifying agent, dehydrating agent and a catalyzer in isomerization treatment. Especially it has a wide range of applications in medicine, organic pigment and petrochemical catalyst. In addition, it can be the substitute of orthophosphoric acid, antalytical reagent and so on.

Specification(refer to HG/T 4691-2014)

Item		Specification								
		95%			105%			115%		
		High-grade	First-grade	Qualified	High-grade	First-grade	Qualified	High-grade	First-grade	Qualified
Chromaticity (Hazen)	≤	20	30	40	20	30	40	20	30	40
Main content as H ₃ PO ₄ , ω/%		≥ 95.0			104 ~ 106			≥ 115.0		
Phosphorus pentoxide as P ₂ O ₅ , ω/%		≥ 68.8			75.3 ~ 76.7			≥ 83.3		
Chloride as Cl, ω/%	≤	0.0003	0.0005	0.0005	0.0003	0.0005	0.0005	0.0003	0.0005	0.0005
Iron as Fe, ω/%	≤	0.001	0.002	0.002	0.001	0.002	0.002	0.001	0.002	0.002
Arsenic as As, ω/%	≤	0.0001	0.008	0.01	0.0005	0.008	0.01	0.004	0.008	0.01
Heavy metal as Pb, ω/%	≤	0.001	0.001	0.002	0.001	0.001	0.002	0.001	0.001	0.002
Could be customized										