Possible acids to use for acidifying irrigation water							
Sulfuric acid H_2SO_4		**Phosphoric acid H_3PO_4**		**Nitric acid HNO_3**		**Citric acid $H_3C_6H_5O_7$**	
Pros	**Cons**	**Pros**	**Cons**	**Pros**	**Cons**	**Pros**	**Cons**
Readily available from many suppliers	Requires nutrient balancing with fertilizer	Safer than nitric acid	Requires a lot of nutrient balancing with fertilizer (inappropriate for highly alkaline waters)	Second least expensive	Very dangerous (oxidizing, corrosive, harmful fumes)	No nutrients to balance with fertilizer	Most expensive acid listed here
Least expensive	Dangerous – heats during mixing with water, can cause an explosion if water added to acid		Slightly more expensive		Requires nutrient balancing with fertilizer	Safer than nitric acid	
Safer than nitric acid	Corrosive		Corrosive				
Storage: Keep in a tightly closed, preferably non-metal container in well ventilated area. Do not expose to moisture or heat. Store in cool areas.		**Storage:** Keep in a tightly closed, preferably non-metal container in well ventilated area. Do not expose to moisture or heat and do not store near alkalis.		**Storage:** Keep in tightly closed, non-metal and non-glass container in a well ventilated area. Do not expose to moisture, heat, or sunlight. Keep away from readily oxidizable materials. Must be stored and only used in cool conditions.		**Storage:** Avoid creating aerosols and dust from anhydrous form of this chemical. Keep in the original container and tightly closed. Avoid sunlight.	