

JIS

JAPANESE INDUSTRIAL STANDARD

Phosphoric Acid

☞ JIS K 1449 —1978

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by

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JAPANESE INDUSTRIAL STANDARD

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Phosphoric Acid

K 1449-1978



1. Scope

This Japanese Industrial Standard specifies phosphoric acid to be used as industrial chemical.

2. Classification of Phosphoric Acid

Phosphoric acid shall be classified into three grades: 89 % phosphoric acid, 85 % phosphoric acid, and 75 % phosphoric acid.

3. Quality

Phosphoric acid shall be tested by the tests of 5. and the results shall satisfy the requirements given in Table below.

Applicable Standards:

JIS K 8005-Primary Standard Substances for Volumetric Determination

JIS K 8012-Zinc

JIS K 8150-Sodium Chloride

JIS K 8563-Lead Nitrate

JIS K 8982-Ferric Ammonium Sulfate (Iron Alum)

JIS P 3801-Filter Paper (for Chemical Analysis)

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	89 % phosphoric acid		85 % phosphoric acid		75 % phosphoric acid	
	No. 1	No. 2	Special Grade	No. 1	No. 2	No. 1
Appearance	To be colourless or slightly coloured viscous liquid free from suspended matter					
Specific gravity (15/4 °C)	1.73 min.	1.73 min.	1.69 min.	1.69 min.	1.69 min.	1.58 min.
Chloride (Cl) %	0.001 max.	0.005 max.	0.0005 max.	0.001 max.	0.005 max.	0.001 max.
Sulfate (SO ₄) %	0.003 max.	0.006 max.	0.003 max.	0.003 max.	0.006 max.	0.003 max.
Heavy metal (Pb) %	0.002 max.	—	0.001 max.	0.002 max.	—	0.002 max.
Iron (Fe) %	0.002 max.	0.01 max.	0.002 max.	0.002 max.	0.01 max.	0.002 max.
Arsenic (As) %	0.005 max.	0.01 max.	0.0001 max.	0.005 max.	0.01 max.	0.005 max.
Phosphoric acid (H ₃ PO ₄) %	89.0 min.	89.0 min.	85.0 min.	85.0 min.	85.0 min.	75.0 min.

