PIOCHEM

Technical Data Sheet

Version:01
Revision Date 19/10/2026

Product name	Phosphoric Acid 85%		
Mol.Formula	H_3PO_4	**CAS No.**	7664-38-2
Mol.wt.	98 (g\mol)	**Storage condition**	RT

Sr.no.	Item test	units	Specification
1.	**Appearance**	-	Clear, colorless, syrupy liquid , corrosive
2.	**Solubility**	-	Miscible with water and with ethanol (96 per cent)
3.	**Identification**	-	Give the reactions of phosphates
4.	**Appearance of solution**	-	Clear and colorless
5.	**Relative Density**	(g/cm3)	About 1.7
6.	**Substances precipitated with ammonia**	-	passes test
7.	**Hypophosphorous acid and phosphorous acid**	-	passes test
8.	**Sulfate**	ppm	Max 100 ppm
9.	**Iron**	ppm	Max 50 ppm
10.	**Chlorides**	ppm	Max 50 ppm
11.	**Assay**	-	84-90%

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
Corrosive to metals (Category 1), H290 Skin corrosion (Category 1B), H314
For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008
Pictogram


GHS05

Signal word Danger
Hazard statement(s)
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
Precautionary statement(s)
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements

2.3 Other hazards

none

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.