



PRAYON

## PRODUCT SPECIFICATION DATA SHEET

# prayphos PRAYPHOS™ PPA 75% FG

FOOD



### STORAGE & SHELF LIFE

- ~ Store product in sealed containers at room temperature and above freezing (crystallization) point.
- ~ Preferred storage: SS 316 tanks or certain reinforced plastics and rubber lined vessels.
- ~ Best before: 2 years after production date.

### KEY PROPERTIES

- ~ Relatively non-volatile
- ~ Stable at elevated temperatures
- ~ Milder acid than sulfuric, nitric, or hydrochloric acids
- ~ Weight per Gallon - 13.1 - 13.2 lbs./gal. @ 25°C

### APPLICATIONS

- ~ Acidulant in soft drinks
- ~ Cane sugar refining
- ~ Vegetable oil degumming
- ~ Pet food
- ~ Yeast nutrient
- ~ Fermentation process : MSG
- ~ Enzymes production
- ~ Penicillin production
- ~ Generally recognized as safe as a miscellaneous and/or general purpose food additive under 21 CFR 182.1073 and feed additive under 21 CFR 582.1073.
- ~ Approved for use in adhesives and components of coatings (21 CFR 175), paper and paperboard components (21 CFR 176), and polymers (21 CFR 177).
- ~ Approved for use in Industrial modified starch (21 CFR 178.3520)
- ~ Potable Water Treatment: Conforms to the requirements of NSF/ANSI Standard 60. Used for corrosion and scale control; Maximum use level 13 mg/L.

|                      |                                  |
|----------------------|----------------------------------|
| Plant location       | Augusta, GA-USA                  |
| Packaging types      | Bulk Tank Trucks - Drums - Totes |
| Handling precautions | see MSDS                         |

### CERTIFICATIONS

ISO 9001 (Quality) - Kosher (Pareve, Passover; Certified when bulk shipped in OU approved carriers) - Halal - NSF/ANSI Standard 60

### REGULATIONS & STATEMENTS

Meets the requirements of the Food Chemicals Codex (FCC) current edition.  
GMO free - Allergen free - BSE/TSE free - Mineral origin

### MISCELLANEOUS

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Certified to  
ANSI/NSF 60

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[www.prayon.com](http://www.prayon.com)



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**DESCRIPTION**

|   |                             |   |
|---|-----------------------------|---|
| <b>General Description</b><br>PHOSPHORIC ACID, 75%<br>Slightly viscous clear, colorless liquid with no foreign odor |                             | <b>Date effective - edition</b><br>September, 2010 - 01 |
| <b>Grade</b><br>Food Grade  | <b>E number(s)</b><br>E 338 | <b>Formula</b><br>H <sub>3</sub> PO <sub>4</sub>        |
| <b>Molecular weight</b><br>98.0   | <b>EINECS</b><br>231-633-2  | <b>CAS number</b><br>7664-38-2                          |
| <b>Transport</b><br>CORROSIVE MATERIAL, UN1805, RQ, STCC4930248   |                             |   |

**PRODUCT CHARACTERISTICS**

| Chemical properties                        | Unit | Typical analysis | Specifications |      | Methods   |
|--|------|------------------|----------------|------|-----------|
| Equivalent, H <sub>3</sub> PO <sub>4</sub> | %    | 75.3             | 75.0           | Min. | QWI.90065 |
| Equivalent P <sub>2</sub> O <sub>5</sub>   | %    | 54.6             | 54.3           | Min. | QWI.90065 |
| Specific Gravity, @ 25.0/15.5°C            | ---  | 1.577            | 1.574          | Min. | QWI.90065 |
| <b>Impurities content</b>                  |      |                  |                |      |           |
| Pb   | ppm  | <1.0             | 3.0            | Max. | QWI.90042 |
| As   | ppm  | <1.0             | 3.0            | Max. | QWI.90006 |
| F  | ppm  | <10.0            | 10.0           | Max. | QWI.90030 |
| Cd   | ppm  | <1.0             | 3.0            | Max. | ICP       |
| Heavy Metals (as Pb)                       | ppm  | <10.0            | 10.0           | Max. | QWI.90036 |

**PHYSICAL PROPERTIES**

|                       |                |
|-----------------------|----------------|
| <b>Freezing Point</b> | -17.5 °C       |
| <b>Boiling Point</b>  | 135 °C         |
| <b>Viscosity</b>      | 12 cSt @ 25 °C |

**IDENTIFICATION TEST**

Positive tests for phosphorus.



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**Revision n°/date**  
01/ Sep 30, 2010

**Change(s)**

- Changed to new Prayon format;
- Added Identification Tests and physical properties
- Added typical data for chemical properties
- Added storage and shelf life information

CP/NE 9/30/10

**Historical Revisions**