

METRIC

A-A-55820

1 August 1996

SUPERSEDING

O-O-670C

13 November 1991

COMMERCIAL ITEM DESCRIPTION

ORTHOPHOSPHORIC (PHOSPHORIC) ACID, TECHNICAL

The General Services Administration has authorized the use of this commercial item description as a replacement for O-O-670C for all federal agencies.

1. **SCOPE.** This commercial item description covers technical grade orthophosphoric (phosphoric) acid, Chemical Abstract Service Registry Number (CAS #)7664-38-2.

2. **CLASSIFICATION.** The orthophosphoric (phosphoric) acid shall conform to the following classes:

Class 1 - 85 percent acid

Class 2 - 75 percent acid

3. **SALIENT CHARACTERISTICS.** When tested using the methods and procedures of the American Chemical Society (ACS), "Reagent Chemicals, American Chemical Society Specifications," the orthophosphoric (phosphoric) acid shall meet the specifications of Table 1.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any other data which may improve this document should be sent by letter to: Defense Supply Center Richmond (DSCR), ATTN: DSCR-VBD, 8000 Jefferson Davis Highway, Richmond, VA 23297-5610.

AMSC N/A

FSC 6810

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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TABLE 1. Orthophosphoric (phosphoric) acid specifications.

ORTHOPHOSPHORIC (PHOSPHORIC) ACID SPECIFICATIONS		
Item	Specification	
	Class 1	Class 2
Assay (as H ₃ PO ₄)	≥ 85.0%	≥ 75.0%
Sulfates (as SO ₄)	≤ 0.35%	not specified
Arsenic (As)	≤ 0.001%	≤ 0.06%
Alkali and other phosphates	≤ 0.25%	not specified
Heavy metals (Pb)	≤ 0.005%	not specified
Volatile acids (as acetic acid)	not specified	≤ 0.10%
Specific gravity at 20°/4°C	≥ 1.690	≥ 1.580

4. **REGULATORY REQUIREMENTS.** Items shall be labeled, packed and marked in accordance with Title 49 Code of Federal Regulations (CFR), Parts 100 to 199.

5. QUALITY ASSURANCE PROVISIONS

5.1 Product conformance. The products provided shall meet the salient characteristics of this commercial item description; conform to the producer's own drawings, specifications, standards, and quality assurance practices; and be the same product offered for sale in the commercial market. The government reserves the right to require proof of such conformance.

5.2 Market acceptability. The item offered must have been sold to the government or commercial market.

6. **PACKAGING.** Preservation, packing, labeling, and marking shall be as specified in the contract or order.

7. NOTES

7.1 Source of documents.

7.1.1 The Code of Federal Regulations may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402-0001.

7.1.2 Chemical Abstract Service files and data base may be obtained from the Chemical Abstract Service, Customer Services, P.O. Box 3012, Columbus, OH 43210.

7.1.3 American Chemical Society specifications may be obtained from the American Chemical Society, 1155 Sixteenth Street, N.W., Washington, DC 20036.

7.2 Ordering data. Acquisition documents must specify the following:

- a. Title, name, and date of this commercial item description.
- b. The class of chemical desired, i.e., Class 1 or Class 2.
- c. Unit quantity required.
- d. Packaging requirements.

7.3 National stock numbers (NSNs). NSNs 6810-00-823-8004, 6810-00-236-5668, 6810-00-264-6722, and 6810-01-244-7686 are the NSNs which correspond to this Commercial Item Description. These may not be all possible NSNs associated with this document.

7.4 Sources of supply. The following products are known to meet the requirements of this Commercial Item Description. Competition is not limited to these suppliers.

SAF Bulk Chemicals
P.O. Box 2060
Milwaukee, WI 53233
(800) 336-9719

J.T. Baker
222 Red School Lane
Phillipsburg, NJ 08865
(800) 582-2537

Mallinckrodt Chemical
P.O. Box 800
Paris, Kentucky 40362
(800) 354-2050

Rhone-Poulenc Basic Chemicals Co.
One Corporate Drive, Box 881
Shelton, CT 06484
(800) 642-4200

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MILITARY INTERESTS:

Custodians

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Navy - YD-1

Navy - SA

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