

**SALES SPECIFICATIONS**

Sales Specification No : 14917-14  
Effective Date : 09/25/2013  
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**EASTMAN****PRODUCT NAME****Eastman EastaPure(TM) Acetic Acid****SPECIFICATIONS**

| <b>PROPERTY</b> | <b>LIMITS</b> | <b>TEST METHOD</b> |
|-----------------|---------------|--------------------|
| Phosphates, ppb | 1000 MAX      | TECE-A-CL-G-IC-3   |
| Sulfates, ppb   | 400 MAX       | TECE-A-CL-G-IC-3   |
| Chlorides, ppb  | 400 MAX       | TECE-A-CL-G-IC-3   |
| Zinc, ppb       | 30 MAX        | TEAD-A-AN-G-ICM-2  |
| Titanium, ppb   | 10 MAX        | TEAD-A-AN-G-ICM-2  |
| Tin, ppb        | 10 MAX        | TEAD-A-AN-G-ICM-2  |
| Strontium, ppb  | 10 MAX        | TEAD-A-AN-G-ICM-2  |
| Sodium, ppb     | 30 MAX        | TEAD-A-AN-G-ICM-2  |
| Silver, ppb     | 10 MAX        | TEAD-A-AN-G-ICM-2  |
| Potassium, ppb  | 25 MAX        | TEAD-A-AN-G-ICM-2  |
| Nickel, ppb     | 20 MAX        | TEAD-A-AN-G-ICM-2  |
| Manganese, ppb  | 10 MAX        | TEAD-A-AN-G-ICM-2  |
| Magnesium, ppb  | 10 MAX        | TEAD-A-AN-G-ICM-2  |
| Lithium, ppb    | 10 MAX        | TEAD-A-AN-G-ICM-2  |
| Lead, ppb       | 20 MAX        | TEAD-A-AN-G-ICM-2  |
| Iron, ppb       | 100 MAX       | TEAD-A-AN-G-ICM-2  |
| Germanium, ppb  | 10 MAX        | TEAD-A-AN-G-ICM-2  |
| Gallium, ppb    | 10 MAX        | TEAD-A-AN-G-ICM-2  |
| Copper, ppb     | 20 MAX        | TEAD-A-AN-G-ICM-2  |

Eastman Chemical Company · P.O. BOX 511 · Kingsport, Tennessee 37662 USA · 1-800-EASTMAN · 1-423-229-2000 · [www.EASTMAN.com](http://www.EASTMAN.com)

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For reasons of safety and accuracy, the person performing this procedure must be thoroughly trained and under the supervision of a professional person who is knowledgeable in the relevant science. Equipment and materials described should be used in accordance with safety precautions recommended by their manufacturers. Limits in this specification are applicable only to data obtained by the referenced test method.

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| PROPERTY                         | LIMITS      | TEST METHOD        |
|----------------------------------|-------------|--------------------|
| Cobalt, ppb                      | 10 MAX      | TEAD-A-AN-G-ICM-2  |
| Chromium, ppb                    | 20 MAX      | TEAD-A-AN-G-ICM-2  |
| Calcium, ppb                     | 25 MAX      | TEAD-A-AN-G-ICM-2  |
| Cadmium, ppb                     | 10 MAX      | TEAD-A-AN-G-ICM-2  |
| Boron, ppb                       | 10 MAX      | TEAD-A-AN-G-ICM-2  |
| Barium, ppb                      | 10 MAX      | TEAD-A-AN-G-ICM-2  |
| Arsenic & Antimony, ppb          | 5 MAX       | TEAD-A-AN-G-ICM-2  |
| Aluminum, ppb                    | 50 MAX      | TEAD-A-AN-G-ICM-2  |
| Water, %                         | 0.15 MAX    | TECE-A-CL-G-POT-97 |
| APHA Color, ppm                  | 5 MAX       | TECE-A-CL-G-VIS-54 |
| Titration Base, meq/g 0.0004 MAX | PASS        | TECE-A-CL-21-VA-77 |
| Reducing Subs - Permanganate     | PASS        | TECE-A-CL-G-VA-2   |
| Reducing Subs - Dichromate, ml   | 0.60 - 1.00 | TECE-A-CL-G-POT-68 |
| Heavy Metals, ppm (0.5 MAX)      | PASS        | TECE-A-CL-G-VCC-52 |
| Acetic Anhydride, %              | 0.01 MAX    | TECE-A-CL-G-GC-37  |
| Nonvolatile Matter, W%           | 0.0005 MAX  | TECE-A-CL-G-GA-42  |
| Dilution                         | PASS        | TECE-A-CL-G-MIS-4  |
| Assay by GC, %                   | 99.7 MIN    | TECE-A-CL-G-GC-37  |

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