

|                      |                  |
|----------------------|------------------|
| Material             | 450042N          |
| Material description | Nitric acid 69%  |
| Grade                | ARISTAR          |
| CAS Number           | 7697-37-2        |
| Molecular formula    | HNO <sub>3</sub> |
| Molecular mass       | 63.01            |

| Characteristics              | Specifications |
|------------------------------|----------------|
| Assay                        | 68.5 - 69.5 %  |
| Chloride (Cl)                | Max 0.05 ppm   |
| Phosphate (PO <sub>4</sub> ) | Max 0.1 ppm    |
| Silicate (as Si)             | Max 0.1 ppm    |
| Sulphate (SO <sub>4</sub> )  | Max 0.5 ppm    |
| Arsenic and Antimony (as As) | Max 0.005 ppm  |
| Ag (Silver)                  | Max 0.005 ppm  |
| Al (Aluminium)               | Max 0.020 ppm  |
| Au (Gold)                    | Max 0.005 ppm  |
| B (Boron)                    | Max 0.005 ppm  |
| Ba (Barium)                  | Max 0.005 ppm  |
| Be (Beryllium)               | Max 0.005 ppm  |
| Bi (Bismuth)                 | Max 0.005 ppm  |
| Ca (Calcium)                 | Max 0.050 ppm  |
| Cd (Cadmium)                 | Max 0.005 ppm  |
| Co (Cobalt)                  | Max 0.005 ppm  |
| Cr (Chromium)                | Max 0.010 ppm  |
| Cu (Copper)                  | Max 0.005 ppm  |
| Fe (Iron)                    | Max 0.020 ppm  |
| Ga (Gallium)                 | Max 0.020 ppm  |
| Ge (Germanium)               | Max 0.010 ppm  |
| Hg (Mercury)                 | Max 0.001 ppm  |
| In (Indium)                  | Max 0.010 ppm  |
| K (Potassium)                | Max 0.010 ppm  |
| Li (Lithium)                 | Max 0.005 ppm  |
| Mg (Magnesium)               | Max 0.010 ppm  |
| Mn (Manganese)               | Max 0.005 ppm  |
| Mo (Molybdenum)              | Max 0.005 ppm  |

>>> Continued on page 2 >>>



## Characteristics

## Specifications

|                                           |               |
|-------------------------------------------|---------------|
| Na (Sodium)                               | Max 0.050 ppm |
| Ni (Nickel)                               | Max 0.005 ppm |
| Pb (Lead)                                 | Max 0.005 ppm |
| Pt (Platinum)                             | Max 0.005 ppm |
| Sn (Tin)                                  | Max 0.020 ppm |
| Sr (Strontium)                            | Max 0.005 ppm |
| Ti (Titanium)                             | Max 0.005 ppm |
| Tl (Thallium)                             | Max 0.005 ppm |
| V (Vanadium)                              | Max 0.005 ppm |
| Zn (Zinc)                                 | Max 0.010 ppm |
| Zr (Zirconium)                            | Max 0.005 ppm |
| Residue on ignition (as SO <sub>4</sub> ) | Max 1 ppm     |

## Signature

We certify that this batch conforms to the specifications listed above.

This document has been produced electronically and is valid without a signature.

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