

**NMIJ CRMs only for National Metrology Institutes and Designated Institutes which are participating in the CIPM MRA**

8 April, 2019

**Elemental standard solutions**

<b>NMIJ CRM No.</b>	<b>Description (Concentration: 1000 mg kg<sup>-1</sup>)</b>
3601-a	Sodium Standard Solution Na(1000)
3602-a	Potassium Standard Solution K(1000)
3603-a	Calcium Standard Solution Ca(1000)
3604-a	Magnesium Standard Solution Mg(1000)
3605-a	Aluminum Standard Solution Al(1000)
3606-a	Copper Standard Solution Cu(1000)
3607-a	Zinc Standard Solution Zn(1000)
3608-a	Lead Standard Solution Pb(1000)
3609-a	Cadmium Standard Solution Cd(1000)
3610-a	Manganese Standard Solution Mn(1000)
3611-a	Iron Standard Solution Fe(1000)
3612-a	Nickel Standard Solution Ni(1000)
3613-a	Cobalt Standard Solution Co(1000)
3614-a	Arsenic Standard Solution As(1000)
3615-a	Antimony Standard Solution Sb(1000)
3616-a	Bismuth Standard Solution Bi(1000)
3618-a	Mercury Standard Solution Hg(1000)
3619-a	Selenium Standard Solution Se(1000)
3620-a	Lithium Standard Solution Li(1000)
3621-a	Barium Standard Solution Ba(1000)
3622-a	Molybdenum Standard Solution Mo(1000)
3623-a	Strontium Standard Solution Sr(1000)
3624-a	Rubidium Standard Solution Rb(1000)
3625-a	Thallium Standard Solution Tl(1000)
3626-a	Tin Standard Solution Sn(1000)
3627-a	Boron Standard Solution B(1000)
3628-a	Cesium Standard Solution Cs(1000)
3629-a	Indium Standard Solution In(1000)
3630-a	Tellurium Standard Solution Te(1000)
3631-a	Gallium Standard Solution Ga(1000)
3632-a	Vanadium Standard Solution V(1000)
3633-a	Titanium Standard Solution Ti(1000)
3635-a	Yttrium Standard Solution Y (1000)
3644-a	Silver Standard Solution Ag(1000)
3645-a	Silicon Standard Solution Si(1000)

**pH standard solutions**

<b>NMIJ CRM No.</b>	<b>Description</b>	<b>pH</b>	<b>NMIJ CRM No.</b>	<b>Description</b>	<b>pH</b>
5101-a	Oxalate Buffer	1.679	5104-a	Phosphate Buffer	7.413
5102-a	Phthalate Buffer	4.005	5105-a	Borate Buffer	9.180
5103-a	Equimolar Phosphate Buffer	6.865	5106-a	Carbonate Buffer	10.01

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**Ion standard solutions**

NMIJ CRM No.	Description
3802-a	Chloride Ion Standard Solution $\text{Cl}^-$ (1000)
3803-a	Sulfate Ion Standard Solution $\text{SO}_4^{2-}$ (1000)
3804-a	Ammonium Ion Standard Solution $\text{NH}_4^+$ (1000)
3805-a	Nitrite Ion Standard Solution $\text{NO}_2^-$ (1000)
3806-a	Nitrate Ion Standard Solution $\text{NO}_3^-$ (1000)
3807-a	Phosphate Ion Standard Solution $\text{PO}_4^{3-}$ (1000)
3808-a	Bromide Ion Standard Solution $\text{Br}^-$ (1000)
3809-a	Cyanide Ion Standard Solution $\text{CN}^-$ (1000)
3810-a	Iodide Ion Standard Solution $\text{I}^-$ (1000)
3811-a	Chlorate Ion Standard Solution $\text{ClO}_3^-$ (1000)
3812-a	Bromate Ion Standard Solution $\text{BrO}_3^-$ (2000)

**Other standard solutions**

NMIJ CRM No.	Description
3201-a	Hydrochloric Acid ( $0.1 \text{ mol kg}^{-1}$ )
3813-a	Total Organic Carbon Standard Solution TOC(1000)

These CRMs are being distributed through the agent companies under contract with NMIJ.

**Please check the list of distributors in our website.**

[NMIJ CRM Distributors \(pdf\)](#)

For inquiries about price, shipping charge, the appointed date of delivery, etc, of these CRMs, **please contact the distributor who handles the “Inorganic standard solution CRMs”.**

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