

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

23 April 2024

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For inquiries about the price, shipping cost, estimated delivery date, etc, of these CRMs, please contact the [distributor](#) handling the “High purity Inorganic CRMs”.

## Elemental Standard Solutions

Number	Description (Mass fraction: 1000 mg kg <sup>-1</sup> )
3601	Sodium Standard Solution Na(1000)
3602	Potassium Standard Solution K(1000)
3603	Calcium Standard Solution Ca(1000)
3604	Magnesium Standard Solution Mg(1000)
3605	Aluminum Standard Solution Al(1000)
3606	Copper Standard Solution Cu(1000)
3607	Zinc Standard Solution Zn(1000)
3608	Lead Standard Solution Pb(1000)
3609	Cadmium Standard Solution Cd(1000)
3610	Manganese Standard Solution Mn(1000)
3611	Iron Standard Solution Fe(1000)
3612	Nickel Standard Solution Ni(1000)
3613	Cobalt Standard Solution Co(1000)
3614	Arsenic Standard Solution As(1000)
3615	Antimony Standard Solution Sb(1000)
3616	Bismuth Standard Solution Bi(1000)
3618	Mercury Standard Solution Hg(1000)
3619	Selenium Standard Solution Se(1000)
3620	Lithium Standard Solution Li(1000)
3621	Barium Standard Solution Ba(1000)
3622	Molybdenum Standard Solution Mo(1000)
3623	Strontium Standard Solution Sr(1000)
3624	Rubidium Standard Solution Rb(1000)
3625	Thallium Standard Solution Tl(1000)
3626	Tin Standard Solution Sn(1000)
3627	Boron Standard Solution B(1000)
3628	Cesium Standard Solution Cs(1000)

3629	Indium Standard Solution In(1000)
3630	Tellurium Standard Solution Te(1000)
3631	Gallium Standard Solution Ga(1000)
3632	Vanadium Standard Solution V(1000)
3633	Titanium Standard Solution Ti(1000)
3636	Beryllium Standard Solution Be(1000)
3640	Zirconium Standard Solution Zr(1000)
3644	Silver Standard Solution Ag(1000)
3645	Silicon Standard Solution Si(1000)

### Ionic Standard Solutions

Number	Description
3802	Chloride Ion Standard Solution Cl <sup>-</sup> (1000)
3803	Sulfate Ion Standard Solution SO <sub>4</sub> <sup>2-</sup> (1000)
3804	Ammonium Ion Standard Solution NH <sub>4</sub> <sup>+</sup> (1000)
3805	Nitrite Ion Standard Solution NO <sub>2</sub> <sup>-</sup> (1000)
3806	Nitrate Ion Standard Solution NO <sub>3</sub> <sup>-</sup> (1000)
3807	Phosphate Ion Standard Solution PO <sub>4</sub> <sup>3-</sup> (1000)
3808	Bromide Ion Standard Solution Br <sup>-</sup> (1000)
3809	Cyanide Ion Standard Solution CN <sup>-</sup> (1000)
3811	Chlorate Ion Standard Solution ClO <sub>3</sub> <sup>-</sup> (1000)
3812	Bromate Ion Standard Solution BrO <sub>3</sub> <sup>-</sup> (2000)

### pH Standard Solutions

Number	Description (typical pH value)
5101	Oxalate Buffer (1.68)
5102	Phthalate Buffer (4.01)
5103	Equimolar Phosphate Buffer (6.86)
5104	Phosphate Buffer (7.41)
5105	Borate Buffer (9.18)
5106	Carbonate Buffer (10.01)

### Pure materials

Number	Description
3001-c	Potassium hydrogen phthalate
3002-a	Potassium dichromate
3003-b	Arsenic trioxide

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3004-a	Amidosulfuric acid
3005-a	Sodium carbonate
3006-a	Potassium iodate
3007-a	Sodium oxalate
3008-a	Sodium chloride

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## Others

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Number	Description
3201-a	Hydrochloric Acid (0.1 mol kg <sup>-1</sup> )

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## Contact

Reference Materials Office, Center for Quality Management of Metrology, NMIJ

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