

BASIC TECHNICAL DATA AND SPECIFICATIONS

Americium dioxide with Am-241 radionuclide

Parameters	Description/Value
Physical appearance of the bulk isotope	Powder, from grey to black colour (without speckles)
Specific activity of Am-241 radionuclide in the bulk isotope, not less	2.88 Ci/g
The mass fraction of Am-241 radionuclide in the bulk isotope, not less	84%
Radiochemical purity of Am-241 in the bulk isotope, not less	99%
Total activity percentage of gamma-emitting impurities within the range of the measured energies – more than 60 keV, not more	1x 10 ⁻⁴ %
Percentage of Am-243 activity, less	0.001 %
Chemical purity of Am-241 in the bulk isotope, not less	99%

Contact

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Americium dioxide with Am-241 radionuclide

Parameters	Description/Value
Physical appearance of the bulk isotope	Powder, from grey to black colour (without speckles)
Specific activity of Am-241 radionuclide in the bulk isotope, not less	2.81 Ci/g
The mass fraction of Am-241 radionuclide in the bulk isotope, not less	82%
Radiochemical purity of Am-241 in the bulk isotope, not less	99%
Total activity percentage of gamma-emitting impurities within the range of the measured energies – more than 60 keV, not more	1x 10 ⁻⁴ %
Percentage of Am-243 activity, less	0.001 %
Chemical purity of Am-241 in the bulk isotope, not less	97%

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