

# Actinium-225 (Thorium-229 Decay Product) Product Information

## Specifications

|                             |  |
|-----------------------------|--|
| <b>Radioisotope</b>         | <b>Ac-225</b>  |
| <b>Half-Life/Daughter</b>   | 9.920 days to francium-221   |
| <b>Decay</b>                | <a href="#">Decay Radiation Information (NNDC)</a>                       |
| <b>Chemical Form</b>        | Solid actinium nitrate   |
| <b>Radionuclidic Purity</b> | >98% Ac-225; <2% Ra-225  |
| <b>Radioisotopic Purity</b> | 100% Ac-225  |
| <b>Production Route</b>     | Decay of thorium-229   |
| <b>Processing</b>           | Separated by ion exchange and solvent extraction                         |
| <b>Primary Container</b>    | Glass screw top V-vial in nonreturnable container                        |
| <b>Availability</b>         | Routinely available (weekly); order far in advance due to limited supply |
| <b>Unit of Sale</b>         | Millicuries  |

## Other Information

- Can also be supplied as a low-activity bismuth-213 generator