ENDF/B-VII.1 AM-241
Principal cross sections

Cross section (barns)

Energy (MeV)

- total
- absorption
- elastic
- gamma production
ENDF/B-VII.1 AM-241
resonance total cross section

Energy (MeV)

Cross section (barns)
ENDF/B-VII.1 AM-241
resonance total cross section

Energy (MeV)

Cross section (barns)

10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3}

10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3}

total
ENDF/B-VII.1 AM-241
resonance total cross section

[Graph showing the total cross section as a function of energy in MeV, with the cross section in barns on a logarithmic scale from $10^{-4}$ to $10^{-3}$ MeV, and the cross section ranging from $10^0$ to $10^2$ barns.]
ENDF/B-VII.1 AM-241
resonance total cross section

Energy (MeV) vs Cross section (barns)
ENDF/B-VII.1 AM-241
resonance total cross section
ENDF/B-VII.1 AM-241
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
fission
ENDF/B-VII.1 AM-241
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
fission

10^{-5}  10^{-4}  10^{-3}  10^{-2}  10^{-1}  10^0  10^1  10^2  10^3
ENDF/B-VII.1 AM-241
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 AM-241
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

10^0
10^{-1}
10^{-2}

10^{-1}
10^0

Energy (MeV)
ENDF/B-VII.1 AM-241
resonance absorption cross sections

![Graph showing cross section (barns) vs. Energy (MeV)]
ENDF/B-VII.1 AM-241
UR total cross section

Energy (MeV)

Cross section (barns)

Inf. Dil.
100 b
1 b

Energy (MeV)
ENDF/B-VII.1 AM-241
UR fission cross section

Energy (MeV)

Cross section (barns)

Inf. Dil.

100 b

1 b
ENDF/B-VII.1 AM-241

UR capture cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 AM-241
Non-threshold reactions
ENDF/B-VII.1 AM-241
Principal cross sections

Energy (MeV) vs. Cross section (barns)

- total
- absorption
- elastic
- gamma production
ENDF/B-VII.1 AM-241 Damage

![Graph showing damage versus energy (MeV). The graph plots damage in MeV-barns on the y-axis against energy in MeV on the x-axis. The damage increases sharply at low energies, peaks, and then decreases as energy increases.]

- Damage (MeV-barns)
- Energy (MeV)
ENDF/B-VII.1 AM-241
Non-threshold reactions

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 AM-241
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)

Energy (MeV)
The graph shows the inelastic levels of AM-241 as a function of energy for different reactions:

- (n,n*6) represented in black
- (n,n*7) represented in red
- (n,n*8) represented in green
- (n,n*9) represented in blue
- (n,n*10) represented in pink

The x-axis represents energy in MeV, ranging from 0 to 30 MeV. The y-axis represents the cross section in barns, ranging from 0 to 250 *10^{-3} barns.

The graph indicates that the cross section peaks sharply at low energies for the (n,n*6) reaction, while other reactions show lower and more spread-out cross sections.
ENDF/B-VII.1 AM-241
Inelastic levels

![Graph showing inelastic levels for AM-241 with energy on the x-axis and cross section on the y-axis with different reactions labeled.]
ENDF/B-VII.1 AM-241
Inelastic levels

Cross section (barns) vs. Energy (MeV)

- (n,n*31)
- (n,n*32)
- (n,n*33)
- (n,n*34)
- (n,n*35)
ENDF/B-VII.1 AM-241
Inelastic levels

Cross section (barns) vs. Energy (MeV)

- (n,n*36)
- (n,n*37)
- (n,n*38)
- (n,n*39)
- (n,n*40)
ENDF/B-VII.1 AM-241
Threshold reactions

- (n,2n)
- (n,3n)
- (n,4n)
- (n,n*c)
ENDF/B-VII.1 AM-241
angular distribution for elastic
ENDF/B-VII.1 AM-241
Delayed neutron spectra

Energy (MeV)

Probability

10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0}

10^{-1} 10^{-2}

group 1 frac 0.0355 decay/shake 1.334E-10
group 2 frac 0.2540 decay/shake 3.080E-10
group 3 frac 0.1563 decay/shake 1.130E-09
group 4 frac 0.3364 decay/shake 2.868E-09
group 5 frac 0.1724 decay/shake 8.654E-09
group 6 frac 0.0454 decay/shake 2.643E-08
ENDF/B-VII.1 AM-241
Photon emission for fission
ENDF/B-VII.1 AM-241
Photon emission for (n,\gamma)
ENDF/B-VII.1 AM-241
Photon emission for nonelastic
ENDF/B-VII.1 AM-241
thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
ENDF/B-VII.1 AM-241
14 MeV photon spectrum