

**NS6130-02-241**

# Lead selenide Nanoparticles

## Quick Facts

Product	:	Lead selenide Nanoparticles
Stock No	:	NS6130-02-241
CAS	:	12069-00-0
Molecular Formula	:	PbSe
Form	:	Powder

**Purity**  
99.9%

## Technical Specification

Molecular Weight	Density	Melting Point	APS
286.16 g/mol	8.1 g/cm <sup>3</sup>	1078 °C	<100nm

Lead selenide (PbSe), or lead(II) selenide, a selenide of lead, is a semiconductor material. Lead(II) selenide is used in the production of infrared detectors for thermal imaging. It is also used as quantum dots in nanocrystal solar cell. It is an important material and finds applications in photographic plates, and photo resistors and optoelectronic devices. It is used for manufacture of infrared detectors for thermal imaging. Lead selenide nanocrystals embedded into various materials can be used as quantum dots, for example in nanocrystal solar cells.

## Application

- ✓ Hot spot detection
- ✓ Turbo jet combustion
- ✓ Gas and flame analysis
- ✓ Electrical failures
- ✓ Photo resistors and optoelectronic devices.
- ✓ Defense applications



**PbSe**  
APS <100nm



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