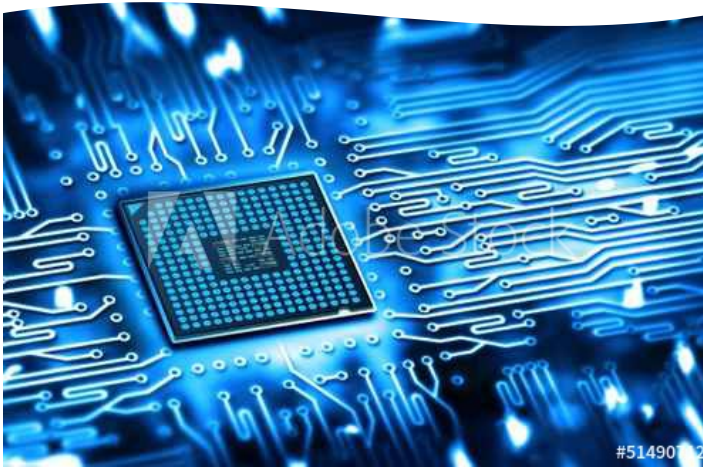


# <sup>72</sup>Ge in the Form of Germanium Tetrafluoride Gas for Semiconductor Manufacture



Enriched Germanium Tetrafluoride gas is a novel silicon wafer dopant for the production of highly integrated, high-density microchips. <sup>72</sup>GeF<sub>4</sub> provides for greater efficiency and increased production throughput, and helps to make chips smaller and better.

# <sup>72</sup>Ge in the Form of GeF<sub>4</sub> Gas

## Specification

### Physical properties:

- Material <sup>72</sup>Ge – Germanium-72 in the form of Germanium Tetrafluoride
- Enrichment <sup>72</sup>Ge  $\triangleq$  50 – 53at%  
<sup>72</sup>Ge  $\triangleq$  55 – 58at%

### Chemical Properties:

- Form GeF<sub>4</sub>
- Purity  $\geq$  99.9vol%

## Impurities in vppm

|                  |       |
|------------------|-------|
| Ar               | < 25  |
| CO <sub>2</sub>  | < 25  |
| HF               | < 25  |
| N <sub>2</sub>   | < 25  |
| O <sub>2</sub>   | < 25  |
| SiF <sub>4</sub> | < 500 |
| SO <sub>2</sub>  | < 25  |

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