

SPECIFICATION

Barium sulfide

| Parameters | Specification |
|-------------------|---|
| CAS Number | 21109-95-5 |
| Appearance | White powder |
| Molecular Formula | BaS |
| Molecular Weight | 169.39 g/mol |
| Boiling Point | 2020 °C |
| Melting Point | 1580 °C |
| Flash Point | 1000 °C |
| Purity | 98–99% |
| Refractive Index | Not applicable |
| Solubility | Slightly soluble in water; hydrolyzes to Ba(OH) ₂ and H ₂ S, releasing hydrogen sulfide gas in acidic conditions |
| Uses | Used as a source of sulfide for chemical synthesis; used to prepare other barium compounds; in ore processing and glass manufacturing |

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