



## Bismuth Sulfide

Hydrogen sulfide gas can be used to precipitate bismuth sulfide from bismuth solutions. Research is being done on this chemical as a possible malaria therapy. The malaria parasite can be effectively killed by bismuth sulfide, while the precise mode of action is still being investigated.

It is noteworthy that current research aims to enhance the potential of bismuth sulfide as a therapeutic agent, despite potential constraints related to its absorption and distribution within the body (pharmacokinetics).

Hydrogen bonds are present in the structure of bismuth sulfide, which may help explain its stability. It also shows resistance to electrochemical oxidation, or breakdown by electrical currents. Crystals of bismuth sulfide are usually hexagonal in form.

Cat. Number	ASC-1025
CAS Number	1345-07-9
MDL Number	MFCD00014204
PubChem	24860111
Molecular Weight	514.16 g/mol
Molecular Formula	Bi <sub>2</sub> H <sub>6</sub> S <sub>3</sub>
Storage Temperature	15-25°C
Form and Color	Crystalline Powder, Black
density	7.7 g/mL at 25 °C (lit.)
solubility	Insoluble in H <sub>2</sub> O, soluble in acid solutions
Purity	≥ 95%