

Effects of Various Hydrogen Sulfide Levels

All values are approximate. The effects can vary depending on the individual's health and the type of physical activity being performed.

H ₂ S Level in ppm*	Resulting Condition / Effect on Humans
0.13	Minimal perceptible odor
4.60	Easily detectable, moderate odor
10.0	Beginning eye irritation. Permissible exposure limit, 8 hours (OSHA, ACGIH)
27.0	Strong, unpleasant odor, but not intolerable
100	IDLH, coughing, eye irritation, loss of sense of smell after 2 to 5 minutes
200–300	Marked conjunctivitis (eye inflammation) and respiratory tract irritation after one hour of exposure
500–700	Loss of consciousness and possible death in 30 minutes to one hour
700–1,000	Rapid unconsciousness, cessation (stopping or pausing) of respiration, and death
1,000–2,000	Unconsciousness at once, with early cessation of respiration and death in a few minutes. Death may occur even if individual is removed to fresh air immediately.
40,000	Lower Explosive Limit
440,000	Upper Explosive Limit

*ppm—parts per million