

**Purification of atmospheric air of oil and gas complex from hydrogen sulfide and**[Full Text](#)

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Sorbent and a method for removal from air of the oil and gas complex of hydrogen sulfide and mercaptans are offered. Air of plants where raw materials contg. hydrogen sulfide and mercaptans are processed, despite all the measures contains a small, below the exposure limits, the amt. of hydrogen sulfide and low mol. wt. mercaptans. The basis of the sorbent is flask, the material with a high content of silica, calcium oxide (CaO), silica (SiO<sub>2</sub>), alumina (Al<sub>2</sub>O<sub>3</sub>), diethanolamine (NH(CH<sub>2</sub>)<sub>4</sub>OH), cetyl pyridinium chloride, water (H<sub>2</sub>O), the rest - impurities. On the surface of sorbent granules diethanolamine is adsorbed, which forms a quite strong ionic assoc. with acidic gases. The mechanism of formation of assoc., the mechanism of capturing of hydrogen sulfide, the characteristics and concept of the absorber for purifn. of the air from hydrogen sulfide and mercaptans are presented in this work.