

ABSTRACT

SENSOR FOR DETECTING GAS ANALYTE

A sensor and a method of using the sensor are disclosed. The sensor includes a conductive region in electrical communication with two electrodes, the conductive region including single-walled carbon nanotubes, nanosized particles of a metal dichalcogenide, and a mercaptoimidazolyl metal-ligand complex. The sensor can be used to detect volatile compounds that have a double or triple bond.

[Figure 1]