

Self Assessment

1. Air is considered as a mixture of _____.
2. Thin sheet of palladium allows only ___ to pass through.
3. _____ is the processes in which only a certain kind of gas molecules are adhered.
4. ___ is a chemical process for gas separation.
5. _____ separation is most economical.

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6. In an ideal system, each gas is compressed from its _____ to the _____.
7. In an ideal system $((s_{1a} - s_{2a}) - (h_{1a} - h_{2a}))$ is _____.
8. The Specific Gas constant for a **Gas A** (R_a) is _____.

Answers

1. 78% N₂ + 21% O₂ + 1% Ar
2. Hydrogen
3. Adsorption
4. Absorption
5. Cryogenic
6. partial pressure, mixture pressure
7.
$$\left((s_{1a} - s_{2a}) - (h_{1a} - h_{2a}) \right) = R_a \ln (p_m / p_{1a})$$
8.
$$R_a = \mathfrak{R} / mol_a$$