

- At STP, which gas diffuses at the faster rate?
A) H₂ B) N₂ C) CO₂ D) NH₃
- Which gas diffuses most rapidly at STP?
A) Ne B) Ar C) Cl₂ D) F₂
- The table below lists four gases and their molecular mass.

Gas	Molecular Mass (g/mol)
A	2
B	4
C	17
D	20

Which gas diffuses at the slowest rate at STP?

- A) A B) B C) C D) D
- At STP, which gas will diffuse more rapidly than Ne?
A) He B) Ar C) Kr D) Xe
 - At STP, which of the following gases will diffuse most rapidly?
A) Cl₂ B) NH₃ C) CO₂ D) N₂

- Under the same conditions of temperature and pressure, which gas will diffuse at the *slowest* rate?
A) He B) Ne C) Ar D) Rn
- At the same temperature and pressure, which gas will diffuse through air at the fastest rate?
A) H₂ B) O₂ C) CO D) CO₂
- Which of the following gases would have the *slowest* rate of diffusion when all of the gases are held at the same temperature and pressure?
A) N₂ B) NO C) O₂ D) CO₂
- Which gas would diffuse most rapidly under the same conditions of temperature and pressure?
A) gas A, molecular mass = 4
B) gas B, molecular mass = 16
C) gas C, molecular mass = 36
D) gas D, molecular mass = 49
- Which gas will diffuse at the fastest rate under the same conditions of temperature and pressure?
A) O₂ B) N₂ C) F₂ D) H₂