

#69613 Chemistry, Other

Why does CO₂ go down in the upward displacement method, and why it doesn't it go down in the normal atmosphere?

Answer:

Heavy gases are always collected by upward displacement of air/downward delivery while light gases are collected by downward displacement of air/upward delivery. SO₂ and CO₂ are denser and so collected by downward delivery while H₂ and NH₃ are lighter and collected by upward delivery.

There is a sufficient disturbance present in the normal atmosphere. If left undisturbed, CO₂ *does* sink lower to the ground than oxygen.