



Product Permeation Statement

Understanding Permeation

You may notice small droplets, mist, or minor discoloration inside the protective plastic bags surrounding your acid bottles. This is a natural physical process called permeation.

Permeation occurs when trace amounts of liquid or vapor migrate through the walls of the plastic container. This is most common when products are stored at elevated temperatures.

Does this affect product quality?

No. The amount of material that permeates is extremely small (typically less than 0.1% of the total volume). The performance and purity remain unaffected.

Affected Products

GFS Hydrochloric and Nitric Acid products packaged in HDPE bottles.

Safe Handling Instructions

If you detect moisture or vapor inside the protective bag, please follow these safety protocols immediately:

1. **Use Proper Ventilation:** Move the bottle to a laboratory ventilation hood or laminar flow cabinet before opening.
2. **Rinse Carefully:** Slowly remove the bottle from the bag. Rinse both the bag and the bottle thoroughly with high-purity water. Work deliberately to avoid splashing.
3. **Verify Safety:** Use pH paper to test any residual liquid. Continue rinsing until the pH is greater than 5.
4. **Dry & Clean:** Wipe the bottle with a particle-free lab cloth before use.
5. **Proper Disposal:** Dispose of the rinsing water and cleaning cloths according to the safety guidelines found in the (M)SDS.



Storage Recommendations

To decrease the risk of permeation and maintain a clean workspace, store these products at ambient room temperature.

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