

Field Acidification Instructions:

Caution: Before handling acid dropper, refer to Safety Data Sheet (SDS) for precautions. Wear appropriate gloves and safety glasses when working with acid dropper.

Be aware that preservatives dispersed from dropper-type bottles could become contaminated and could result in the contamination of subsequent samples.

Acid that has discolored has likely oxidized and may not sufficiently lower pH of the sample.

The proper disposal of unusable acid is the program's responsibility.

The following instructions are for the field acidification of NO_x, TN, COD, NH₃ and all metals (except organic aluminum).

1. Put on appropriate disposable gloves and safety glasses.
2. Do not put gloved hands near eyes or mouth.
3. Secure the sample to be acidified in a manner to facilitate easy and safe dispensing of acid, ensuring acid is only dispensed into sample vessel.
4. **For NO_x, TN, COD and NH₃ samples - dispense 1 drop of 98% sulfuric acid**, taking care not to splash sample.
5. **For metals samples (except organic aluminum) – dispense 4 drops of 35% nitric acid**, taking care not to splash sample.
6. Immediately recap the acid dropper and replace in secondary container.
7. Cap the acidified samples and gently invert 5 times to mix.
8. Carefully remove gloves so as not to touch exterior side of glove with bare hands and dispose in a safe container.