

## **Lachat Instruments introduces Amperometric Cyanide methods suite**

The Lachat Instruments Applications team has recently completed 3 new cyanide methods. While initial sample preparation and handling differ, all three methods utilize Amperometric Detection. This allows for measurement of cyanide without use of hazardous chemicals like pyridine and barbituric acid.

### **Method Descriptions**

Lachat QuikChem Method number 10-204-00-5-A utilizes Ligand Exchange reagents to free easily liberated cyanides from methyl complexes. The range for this method is 2-400  $\mu\text{g CN}^-/\text{L}$ . This method is equivalent to EPA method number OIA1677.

Lachat QuikChem Method number 10-204-00-5-B utilizes heat, acid, and UV light to digest cyanide complexes in-line. The digested sample then passes through a diffusion block, where the cyanide (now present as  $\text{HCN}_{(g)}$ ) is trapped in dilute NaOH. The cyanide present in the trapping solution is separated utilizing gas diffusion, then measured amperometrically.

Lachat QuikChem method number 10-204-00-5-X allows samples distilled utilizing the MicroDIST disposable distillation tubes to be measured through amperometric detection as well.

### **Datapacks**

To give more detailed information on these methods, Lachat has developed an Amperometric Cyanide Datapack. This Data Pack contains support data and apparatus information on all three Lachat methods for the determination of cyanide using amperometric detection. For more information, visit: [www.lachatinstruments.com](http://www.lachatinstruments.com)