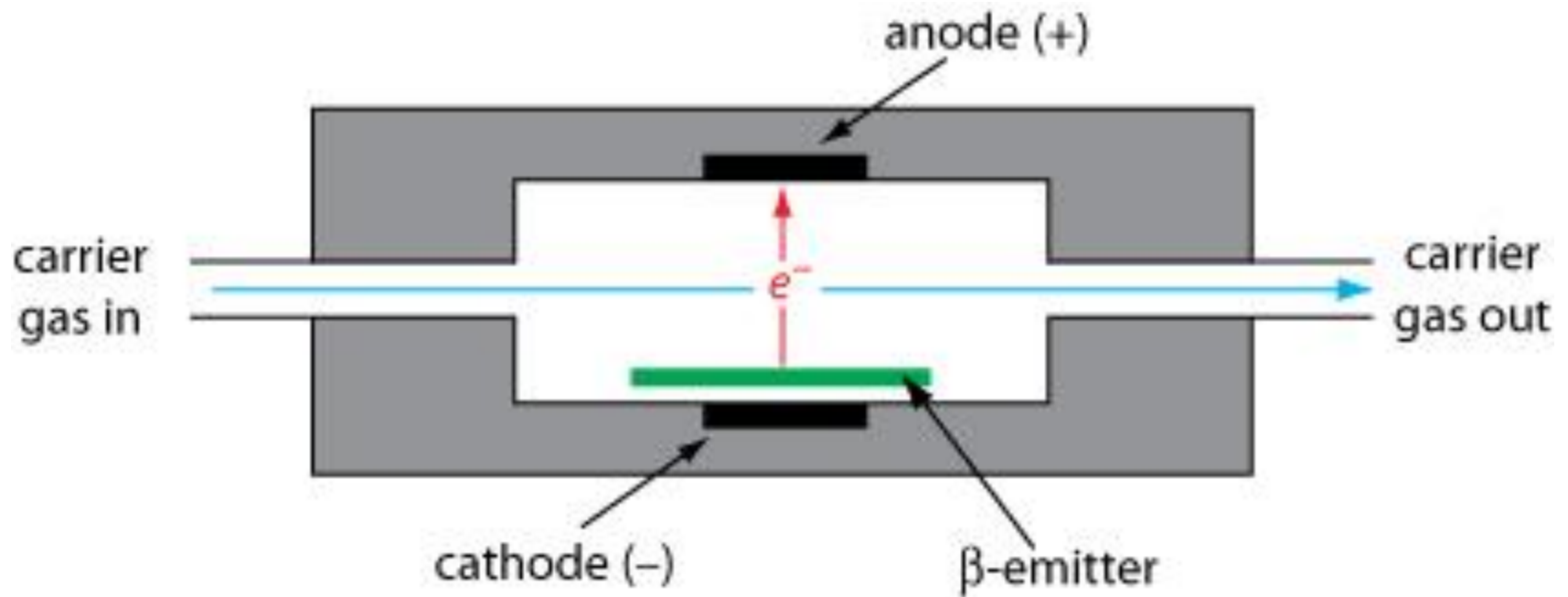


Chemistry 3403 Exp: GC-ECD

Goals:

- 1. Familiarization with GC-ECD.**
- 2. Optimizing the separation of a mixture.**
- 3. Determine the Limit of Detection for method.**

GC-ECD Schematic



Sample:

500 ppm stock solution in n-hexane(C-6).

Compound	Boiling Point(°C)
1-bromopentane	130
2-chlorophenol	175
2,4-dichlorophenol	210

Know how to prepare this solution.

Must prepare a 20 ppm solution from stock solution.

Limit of Detection:

Limit of detection(LOD) is the lowest detectable amount or concentration that can be reliably determined with an analytical process.

Signal or detector response(s) must be $3\times$ greater than background noise(n).