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Gas Chromatography - Chemistry LibreTexts

Gas chromatography is one of the sole forms of chromatography that does not utilize the mobile phase for interacting with the analyte. The stationary phase is either a solid adsorbant, termed gas-solid chromatography (GSC), or a liquid on an inert support, termed gas-liquid chromatography (GLC).

Gas Chromatography Definition, Principles, Procedure and ...

Gas chromatography is a chromatography technique that can separate and analyze volatile compounds in gas phase. Depending on stationary phase used in this analytical technique, there are two types of gas chromatography: Gas Chromatography - an overview | ScienceDirect Topics

Gas chromatography is divided into two subclasses according to the nature of the stationary phase. One of these is GSC (gas-solid chromatography). The fixed phase consists of a solid material, such as granular silica, alumina, or carbon. Gas-solid chromatography is an important method in the separation of permanent gases and low-boiling hydrocarbons.

Gas Chromatography - an overview | ScienceDirect Topics

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Gas chromatography - Wikipedia

Gas chromatography is also sometimes known as vapor-phase chromatography (VPC), or gas liquid partition chromatography (GLPC). These alternative names, as well as their respective abbreviations, are frequently used in scientific literature. Strictly speaking, GLPC is the most correct terminology, and is thus preferred by many authors.

Gas Chromatography - What It Is and How It Works

Gas chromatography (GC) is an analytical technique used to separate and analyze samples that can be vaporized without thermal decomposition. Sometimes gas chromatography is known as gas-liquid partition chromatography (GLPC) or vapor-phase chromatography (VPC).

How does chromatography work? - Explain that Stuff
In gas chromatography, the carrier gas is the mobile phase.

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The rate of flow of the carrier is carefully controlled to give the clearest separation of the components in the sample. The carrier enters the machine through an inlet port/splitter.

[GAS-LIQUID CHROMATOGRAPHY - chemguide](#)

All forms of chromatography involve a stationary phase and a mobile phase. In all the other forms of chromatography you will meet at this level, the mobile phase is a liquid. In gas-liquid chromatography, the mobile phase is a gas such as helium and the stationary phase is a high boiling point liquid adsorbed onto a solid.

[Gas Chromatography Theory - UCLA](#)

Gas Chromatography (GC or GLC) is a commonly used analytic technique in many research and industrial laboratories for quality control as well as identification and quantitation of compounds in a mixture.

[BISC 429 - SFU.ca - Simon Fraser University](#)

In gas chromatography, the mobile phase is a gas that is moved through the column, while the stationary phase is a liquid film that coats the column filling (in packed columns) or the column wall (in capillary columns).

Hence, the correct name for gas chromatography is "Gas-Liquid Chromatography", abbreviated GLC. Compounds are injected onto the column and carried through it by the mobile

[Gas Chromatography | Agilent](#)

Learn how to optimize your analysis with exclusive technologies such as direct-heated gas chromatography systems to peak locking. Autosamplers offer increased throughput options such sample overlay and automated sample prep. Selective detectors offer market-leading sensitivity to ensure you never miss your analyte.

[Lab Report Gas Chromatography \(GC\) - Scribd](#)

In gas chromatography, the mobile phase or moving phase is a carrier gas, usually an inert gas such as helium or an unreactive gas such as nitrogen. The stationary phase is a microscopic layer of liquid or polymer on an inert solid support, inside a piece of glass or metal tubing called a column (a homage to the fractionating column used in distillation). The instrument used to perform gas

[Chromatography | chemistry | Britannica.com](#)

Chromatography, technique for separating the components, or solutes, of a mixture on the basis of the relative amounts of each solute distributed between a moving fluid stream, called the mobile phase, and a contiguous stationary phase. The mobile phase may be either a liquid or a gas, while the

[Chromatography - Wikipedia](#)

Gas chromatography (GC), also sometimes known as gas-liquid chromatography, (GLC), is a separation technique in which the mobile phase is a gas. Gas chromatographic separation is always carried out in a column, which is typically "packed" or "capillary". Packed columns are the routine work horses of gas chromatography, being cheaper and easier to use and often giving adequate performance. [Gas chromatography \(video\) | Khan Academy](#)

And in gas chromatography, we've talked about how the mobile phase is a gas, which means that you need to have an inert carrier gas to push these through. And it's important that this is inert, because you don't want it to react with whatever it is that you're trying to separate. Once it's passed through that, it'll get heated up and then go through a long tube. In order to make it fit into