



# All you need for efficient, consistent GC OQ and PQ

v-kit is a unique product for the OQ/PQ of GC instruments. It delivers efficiency, independence, consistency and cost-savings to the qualification process. Your starting point is the v-kit GC Starter Pack, which contains software, traceable reference standards, SOPs, logbook and column for qualifying a complete GC system.

v-kit includes the following GC tests:

- Column oven, inlet detector and detector temperature accuracy
- Column oven, inlet and detector temperature stability
- Inlet pressure accuracy and tightness
- Inlet and detector flow accuracy (including split, purge, make-up, fuel gases)
- Autosampler injection precision, carryover and retention-time reproducibility
- Detector response linearity (FID/TD)

## Seamless standards and software

The standards solutions integrate seamlessly with v-kit software. Essential information regarding their traceability is encrypted into a data-key supplied with each kit.

A Certificate of Analysis is provided with each batch of solutions – which are supplied in sealed glass ampoules with a batch number and expiry date. Gravimetric, GCMS and standard GC data is retained to reference the integrity of the standards. Each solution is guaranteed to have a minimum one-year from date of shipment until expiry. The v-kit software prevents accidental use of out-of-date solutions.

The GC starter kit contains the software and comprehensive SOPs. v-kit software is independent of your chromatography data system (CDS). It can be installed on any PC or laptop meeting the minimum requirements (visit [www.v-kit.com](http://www.v-kit.com) for details). The software provides an easy, step-by-step route to efficient qualification.



v-kit GC Starter Pack

The Starter Pack includes sufficient materials for qualification of a complete system containing capillary, split/splitless inlet, FID or TCD detection and liquid autosampler. You can order kits for as many qualifications as you need.

## Top-up with Refills

GC Starter Packs are topped up as needed with Refills. These include all necessary consumables and extra licences, and can be ordered in any quantity.

GC Refill kits include:

- System refills
- Detector only kits
- Service packs for volume users

For more information about v-kit, including details of your local distributor, visit the v-kit website or contact v-kit's manufacturer —

NLG-Analytical:

[www.nlg-analytical.com](http://www.nlg-analytical.com)

t: +44(0)1260 274-266

e: [info@nlg-analytical.com](mailto:info@nlg-analytical.com)

# GC qualification with v-kit

## v-kit advantages

- **Cost effective:** v-kit allows you to cut the cost of GC qualification by up to 80%
- **Consistent:** v-kit uses one standard GC qualification approach for all instruments, all laboratories and all sites
- **Comprehensive:** v-kit consists of software, SOPs, and traceable reference standards
- Full SOP provided for each qualification test: saves time and effort
- User-friendly software: flexible, easy-to-use and independent of your chromatography data systems
- v-kit allows instrument vendors, service providers or equipment users to deliver GC qualification and calibration

**Contract service:** Suitably trained service engineers can provide a planned maintenance and qualification service using the unique v-kit qualification system

**Self-delivery:** Using your own laboratory analysts or in-house service personnel — full v-kit training and traceably calibrated tools are supplied by nlG-analytical or your local authorised v-kit vendor

- Used correctly, v-kit can aid compliance to regulations issued by international authorities such as FDA (USA), MHRA (UK), IMB (Ireland), etc.



## Ordering specifications

Part number	Item
VKIT31-iGC	GC starter kit
Refill kits	
VKIT31-RGC	GC refill kit
VKIT31-RHS	GC headspace refill kit
VKIT31-RGC2	2-channel GC system with liquid autosampler refill kit
VKIT31-RFID	GC FID/TCD detector refill kit
VKIT31-RBAS	GC Mainframe refill kit (no detector)
VKIT31-RGC-TU	GC OQ 2nd channel top-up
Tools	
VKIT-GFM	v-kit gas flowmeter
VKIT-DMA	GC pressure meter with capillary inlet adaptor
VKIT-1531	v-kit two-channel printing thermometer
VKIT-1517	Injection port temperature probe
VKIT-1519	GC column oven probe

to order call: +44(0)1260 274-266 e: info@nlG-analytical.com

## v-kit GC tools

v-tools are the recommended tools for GC OQ and integrate with the v-kit software and procedures. The range of tools has been designed to ensure accuracy as well as to help to speed up the instrument testing process. The calibration on all tools is valid for one year and includes traceable calibration certificates.



v-kit Gas Flowmeter



GC Pressure Meter



v-kit 2-channel thermometer



Injection port temperature probe