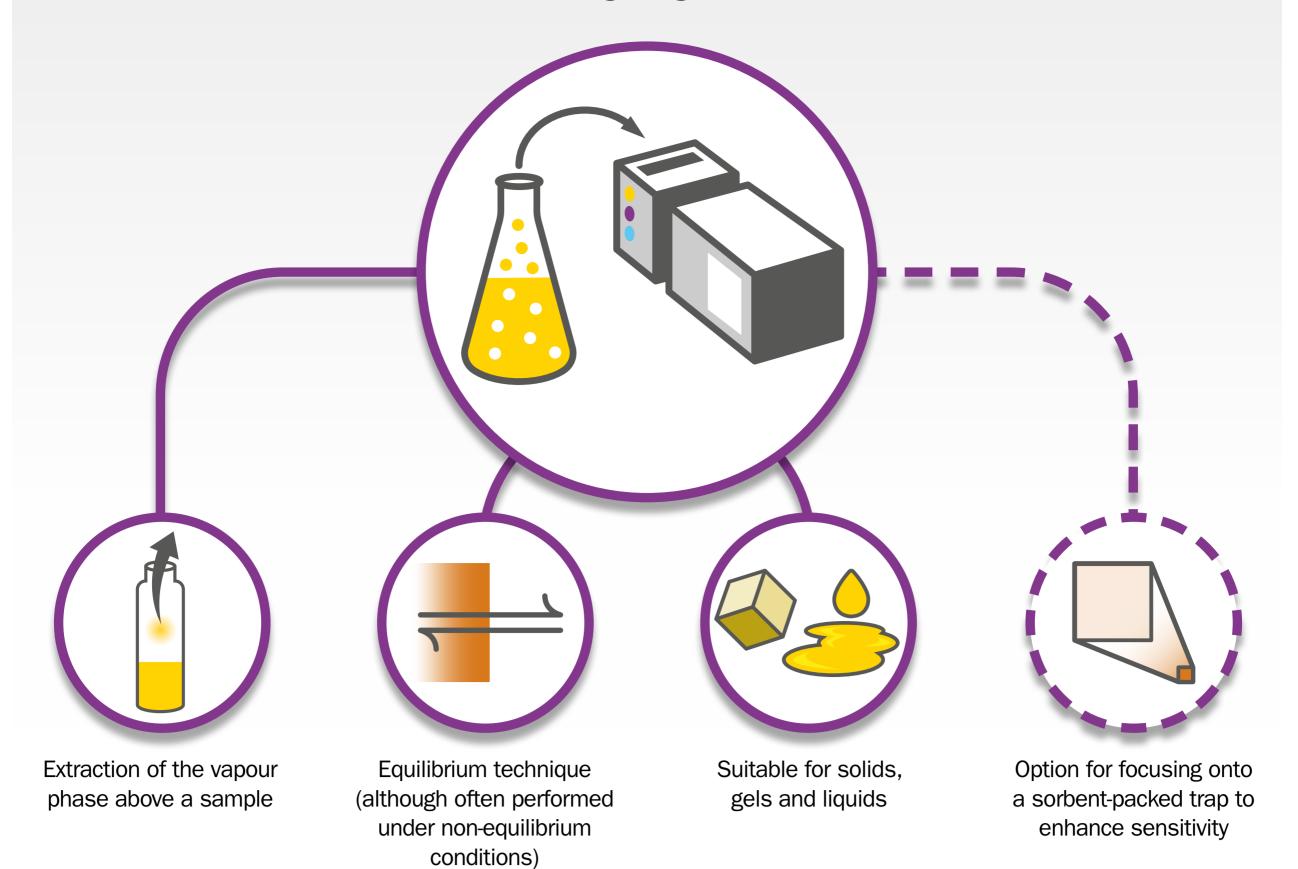
INTRODUCTION TO STATIC HEADSPACE AND HEADSPACE-TRAP

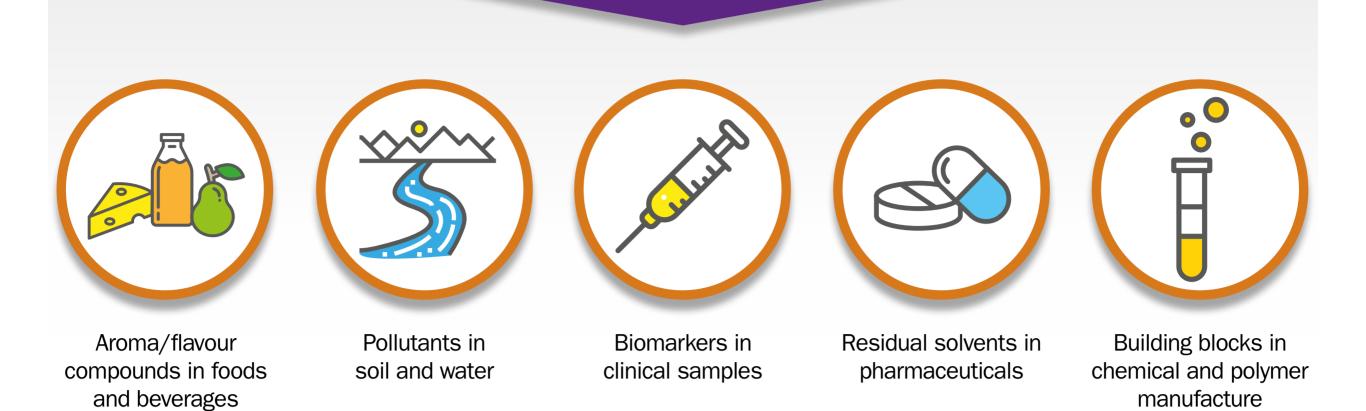


WHAT IS IT?

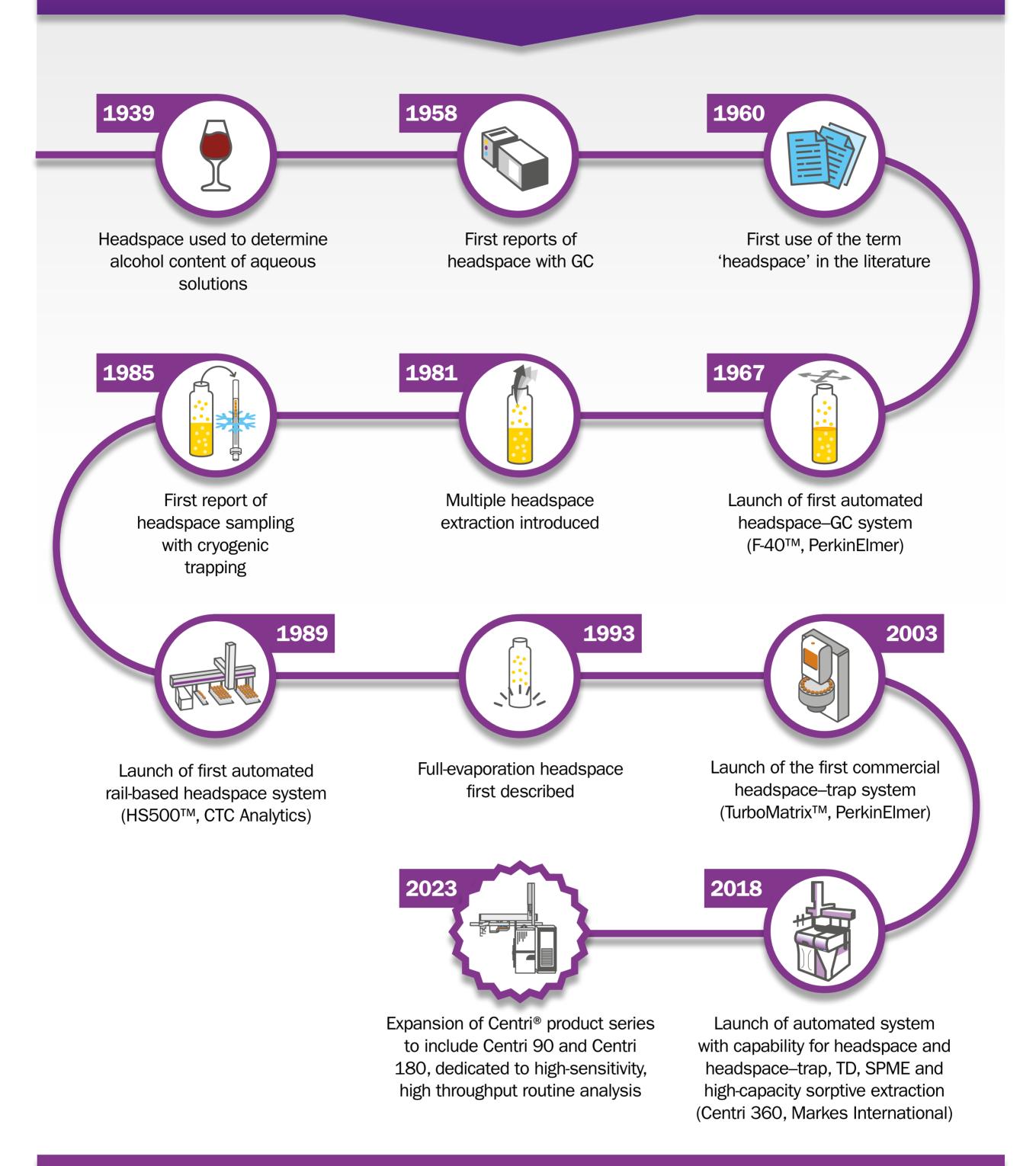
Static headspace is a technique for getting VOCs from a sample into a GC–MS.



KEY APPLICATIONS



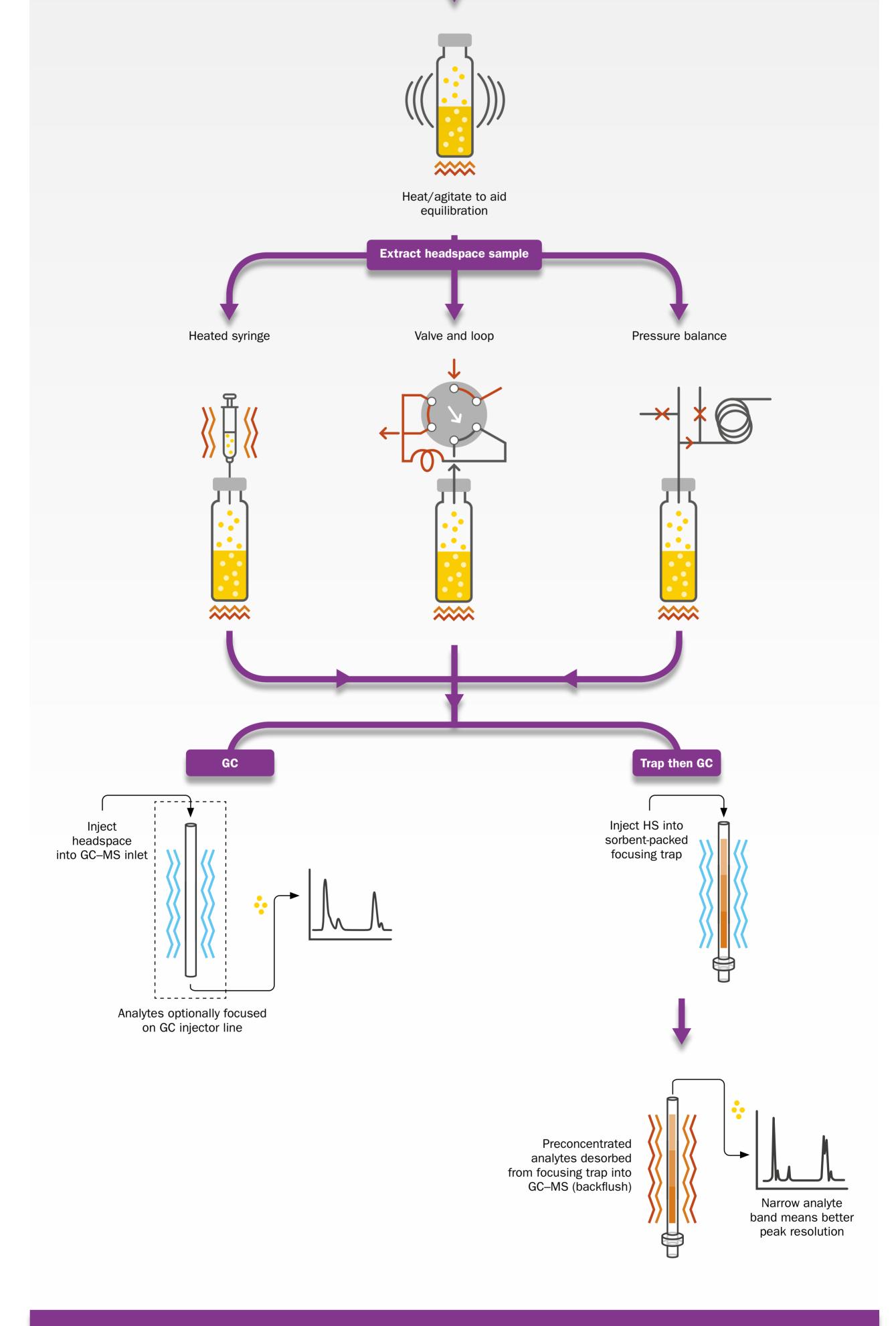
HISTORY



TYPICAL WORKFLOW



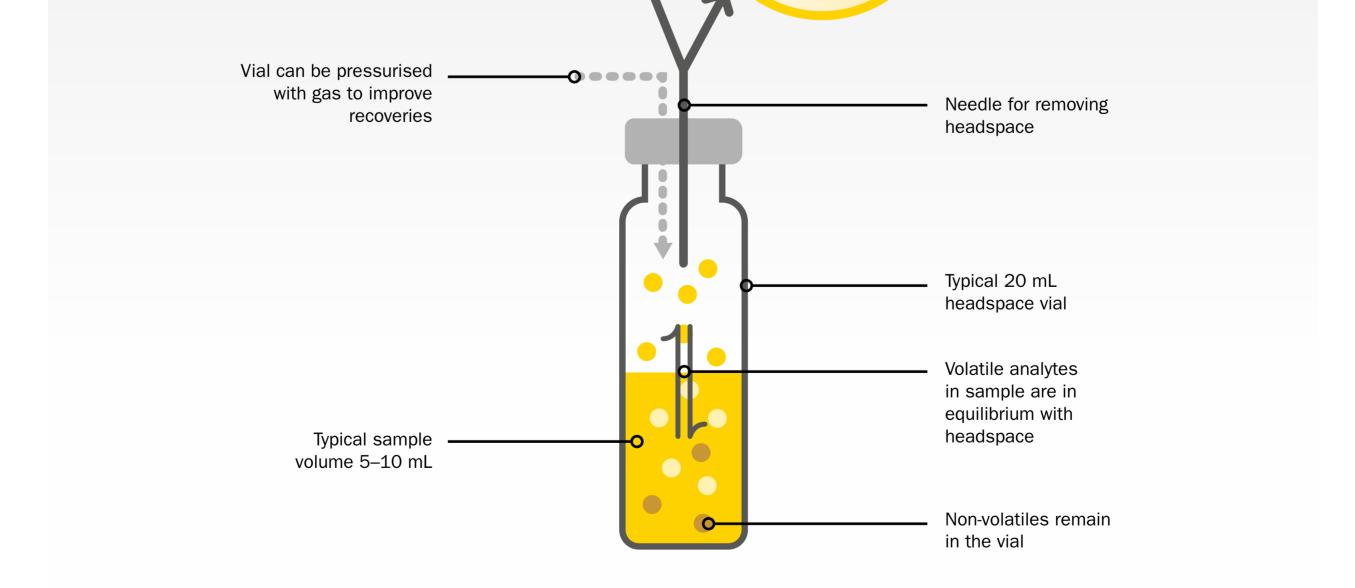
Add solid or liquid sample to vial, and seal



HOW HEADSPACE SAMPLING WORKS

Typical static headspace volume 1 mL

Typical headspace-trap volume 5 mL

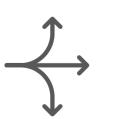


ADVANTAGES & DISADVANTAGES

Static headspace is a versatile technique with a range of benefits, enhanced further by the use of trapping.



Sampling is fast

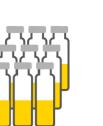


Wider applicability than purge-and-trap





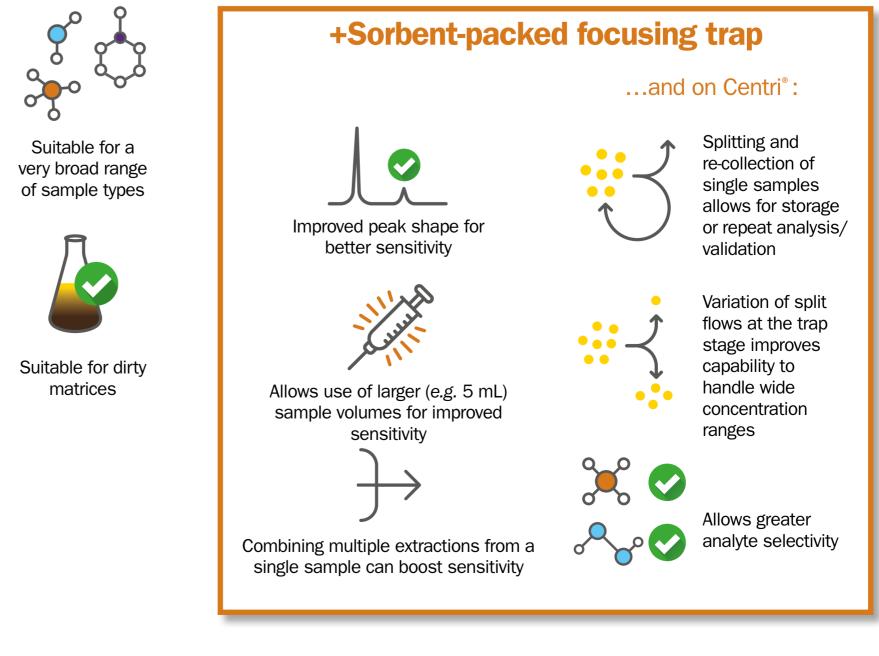
Low cost per sample



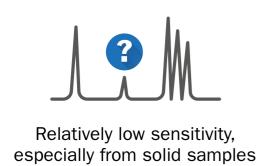
Easily automated

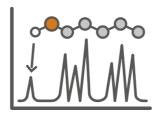


ADVANTAGES

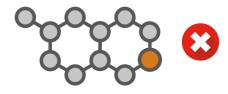


DISADVANTAGES





Low recovery of polar species from aqueous solvents



Doesn't work well for less volatile species

To learn more about automating static headspace and headspace-trap using Markes Centri® automated sample extraction and concentration platforms, visit

www.markes.com/centri

