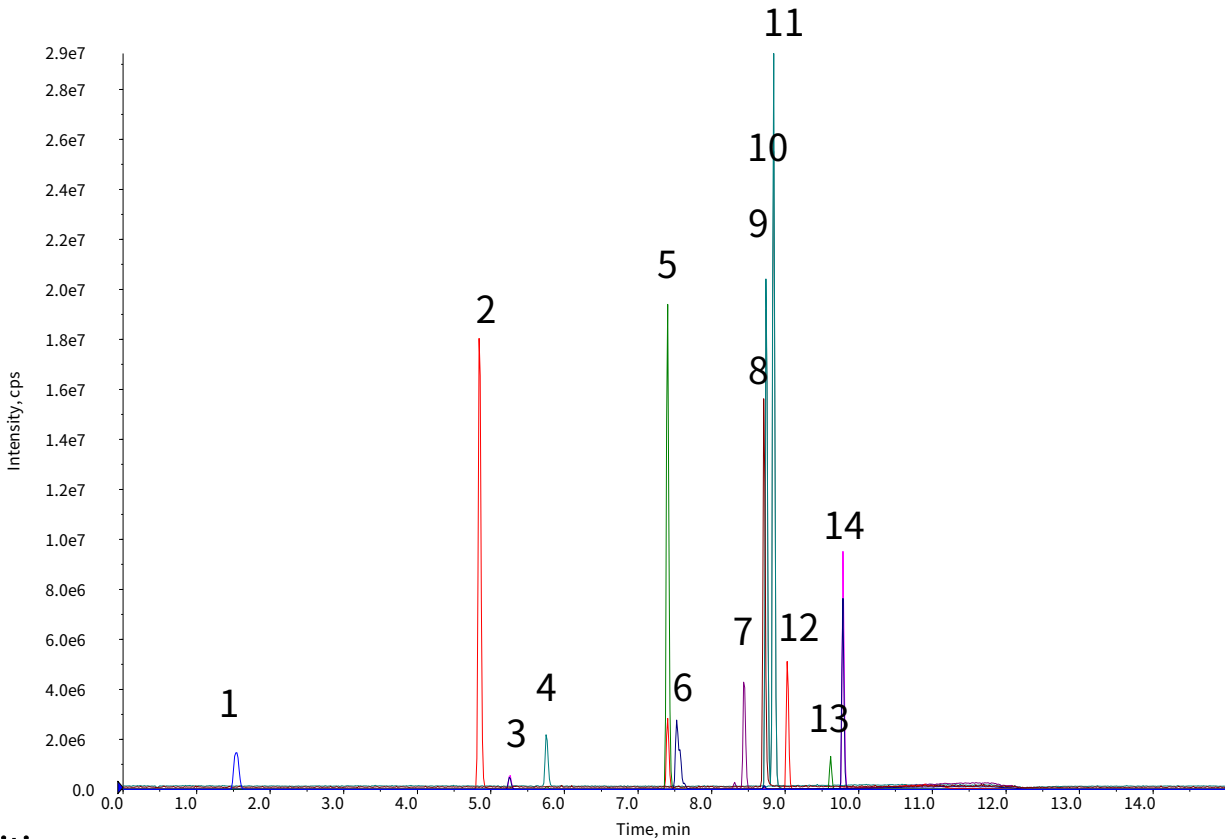


InertSearch™ for LC

Inertsil® Applicationsv

Analysis of Phosphate ester flame retardants (PFRs)

Data No. LB704-0696



Conditions

System : Exion HPLC system
QTRAP 6500+ (Sciex)
Column : InertSustainSwift C18 (GL Sciences Inc.)
(1.9 µm, 100 x 2.1 mm I.D.)
Column Cat. No. : 5020-88230
Delay Column : Delay Column for PFAS (GL Sciences Inc.)
(30 x 3.0 mm I.D.) x 2 columns
Column Cat. No. : 5020-90005
Eluent : A) CH₃OH
: B) 0.1 % CH₃COOH in H₂O

Time (min)	A%	B%
0.0	10	90
10.0	100	0
11.0	100	0
11.1	10	90
15.0	10	90

Analyte: each 50 µg/L

No.	Analyte		Q1	Q3
1	Trimethyl phosphate	TMP	141	109
2	Triethyl phosphate	TEP	183	99
3	Diphenyl phosphate	DiPhP	251	77
4	Tris(2-chloroethyl) Phosphate	TCEP	285	63
5	Tripropyl phosphate	TPP	225	99
6	Tris(1-chloro-2-propyl) phosphate (Tris(2-chloro-1-methylethyl) Phosphate)	TCPP	327	251
7	Tris(1,3-dichloro-2-propyl) phosphate	TDCPP	431	99
8	Tris(2-ethylhexyl) phosphate	TEHP	435	99
9	Triphenyl phosphate	TPhP	327	152
10	Triisobutyl phosphate	TiBP	267	99
11	Tributyl phosphate	TBP	267.2	99
12	Tris(2-butoxyethyl) Phosphate	TBEP	399	45
13	Tricresyl phosphate	TCP	369	91
14	2-Ethylhexyl Diphenyl Phosphate	DPEHP	251.2	77

Flow rate : 0.6 mL/min
Col. Temp. : 40 °C
Detection : LC/MS/MS
(QTRAP 6500+ : ESI, Positive, SRM)
CUR CAD IS TEM GS1 GS2
10 5 5500 500 20 20

Injection Vol. : 2 µL
Sample : Standard

GL Sciences