

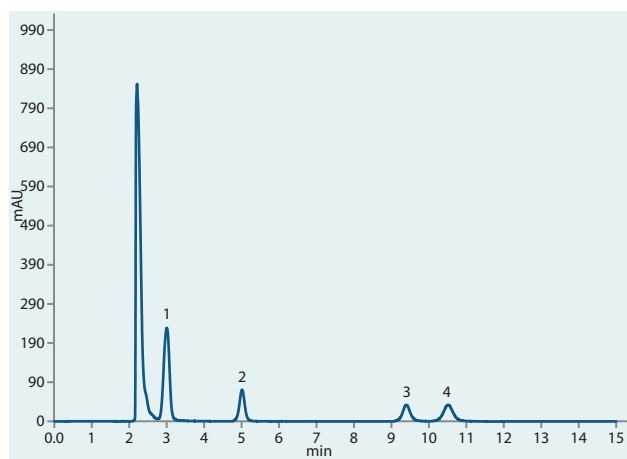


ANTIOXIDANTS IN POLYOLEFIN GRANULATE

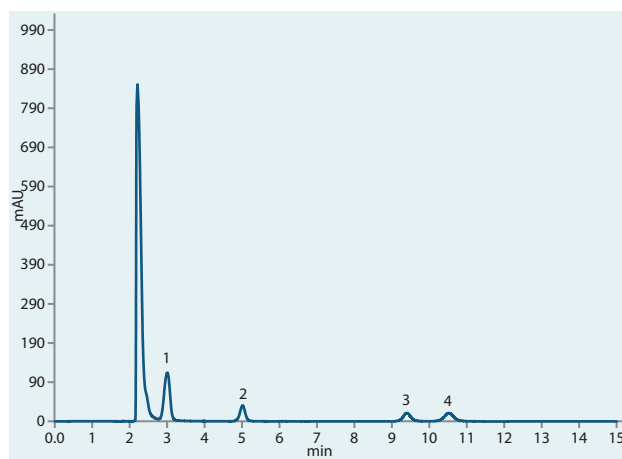
INTRODUCTION

The antioxidants/UV stabilizers in the polyolefin granulate are analyzed by the standard addition method. These polymers are used as a catalytic media during crosslinking and further processing.

Substance: Irganox 3114, 1330, 1076, Irgaphos 168



Sample with standard addition on ARION® Plus C18 column



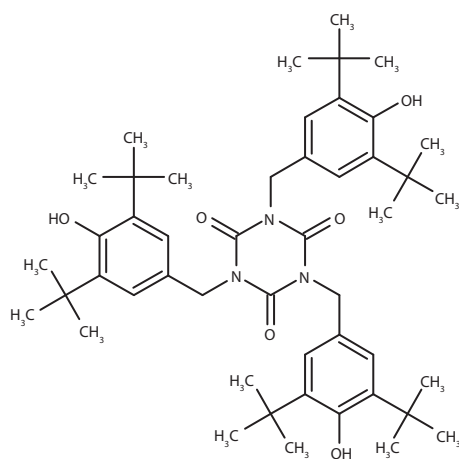
Sample on ARION® Plus C18 column

Column	Arion® Plus C18, 5 µm
Dimensions	250 mm × 4.6 mm
Part number	ARI-5720-LM46
Mobile phase	92–98.5% MeOH/Ethylacetate Isocratic
Flow rate	2 ml/min
Temperature	25 °C
Detection	UV @276 nm
Analytes	1. Irganox 3114 2. Irganox 1330 3. Irganox 1076 4. Irgaphos 168

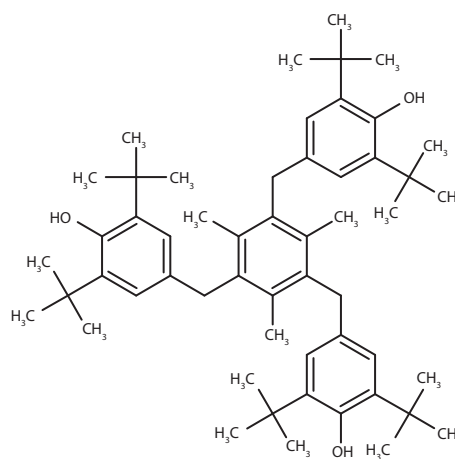
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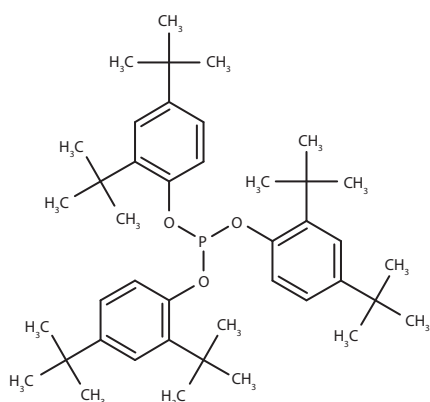
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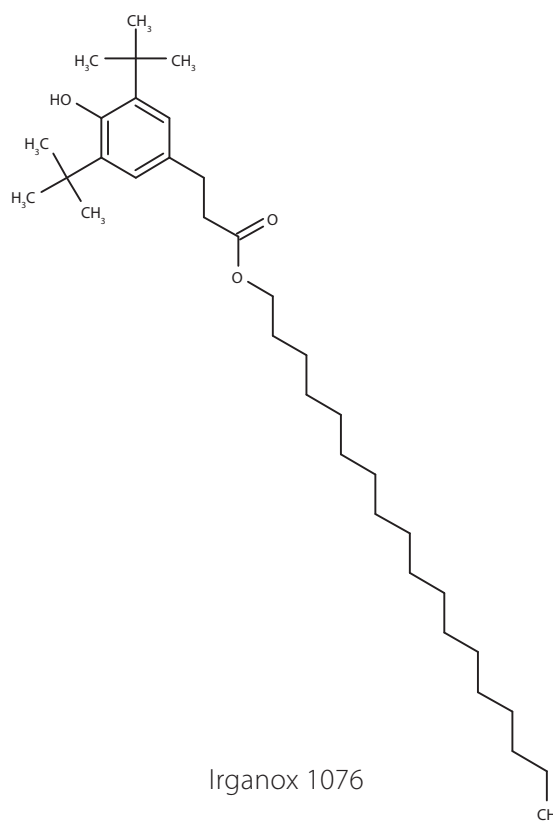
Irganox 3114



Irganox 1330



Irgaphos 168 phosphite form



Irganox 1076