

# TR-1

## TRACE GC Capillary Column

### Key Words

- 100% Methyl
- G1,G2,G38
- General Purpose
- Phthalate plasticizers

### Introduction

The TR-1 from Thermo Electron Corporation is a general purpose non-polar column suitable for a wide range of compounds including, hydrocarbons, esters, pesticides, drugs and amines. An industry standard non-polar column suitable for a very wide range of applications, the TR-1 is an extremely low bleed phase with a maximum operating temperature of 360°C.

The TR-1 is suitable for a range of detectors including MS. The column is solvent washable.



### Phase Type

100% Dimethyl Polysiloxane

### Maximum Temperatures

340°C / 360°C for films  $\leq 1.0 \mu\text{m}$ , 300°C/320°C for  $3 \mu\text{m}$  films, 280°C / 300°C for films  $> 1.0 \mu\text{m}$

### USP Category

G1, G2, G38

### Cross Reference of Competitor Phases

DB-1, DB-Petro, BP1, HP-1, HP-1MS, Rtx-1, Ultra-1, SPB-1, SPB-1 Sulfur, Petrocol DH, CP-Sil 5CB, RSL-150, RSL-160, ZB-1, CB-1, OV-1, PE-1, 007-1(MS), SP-2100, SE-30, RH-1, CC-1, CP-Sil 5CB MS, VF-1ms

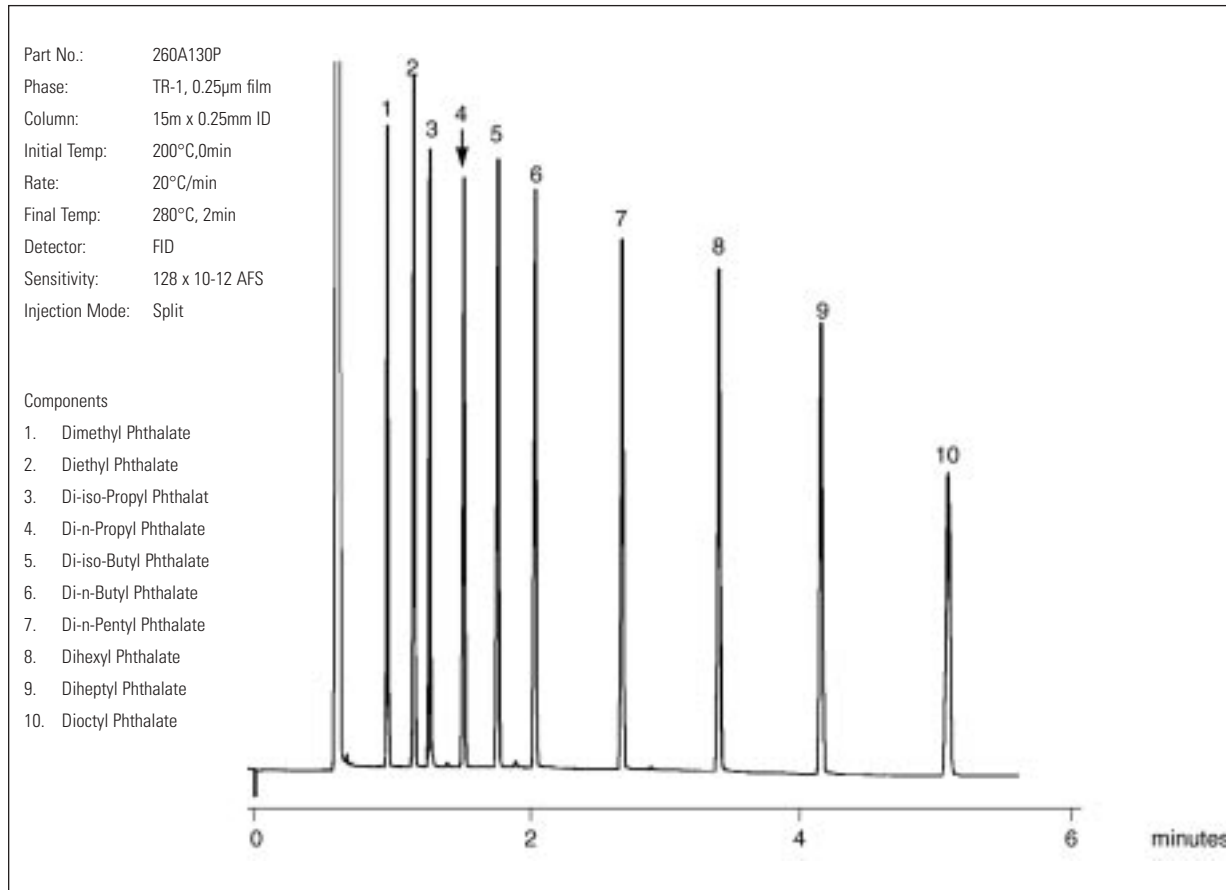
### Application

The selected sample application demonstrates the universal application of the TR-1 column. The application shows excellent resolution of a group of phthalate plasticizers. With an maximum temperature limit of 360°C, it is easy to bake out and recondition the column in the event of column contamination.

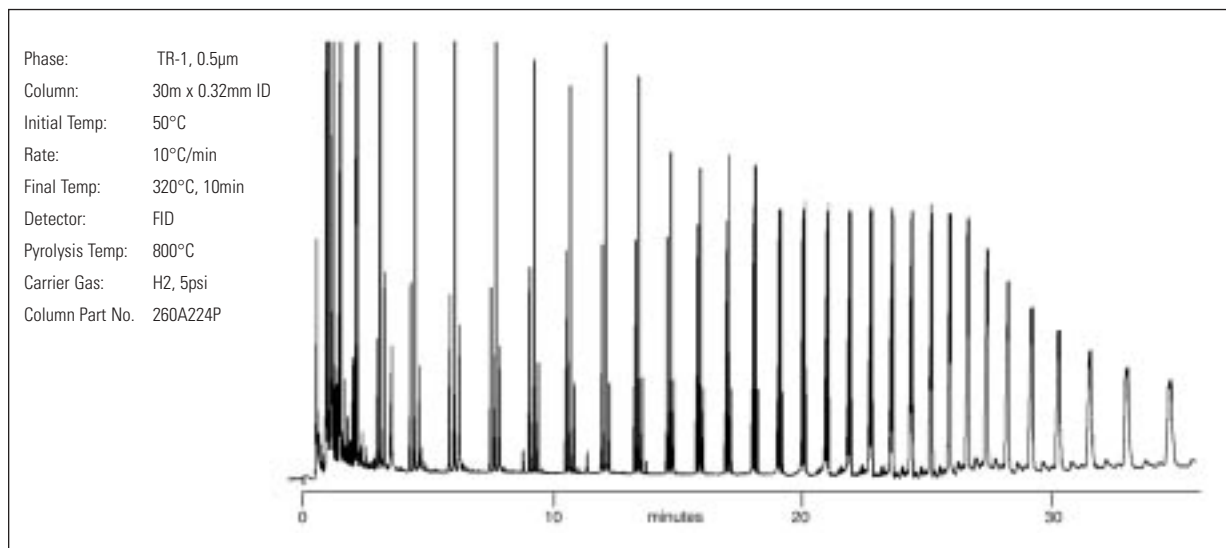
### TR-1 Product Information

ID (mm)	FILM THICKNESS ( $\mu\text{m}$ )	LENGTH (m)	PART NO.
0.10	0.10	10	260A020P
0.25	0.25	15	260A130P
0.25	0.25	30	260A142P
0.25	0.25	60	260A154P
0.25	0.50	30	260A223P
0.25	1.00	30	260A296P
0.25	1.00	60	260A308P
0.32	0.25	15	260A131P
0.32	0.25	30	260A143P
0.32	0.25	60	260A155P
0.32	0.50	30	260A224P
0.32	1.00	30	260A297P
0.32	1.00	60	260A309P
0.32	3.00	30	260A395P
0.53	0.50	15	260A213P
0.53	0.50	30	260A225P
0.53	3.00	30	260A396P
0.53	5.00	30	260A470P

## Analysis of Phthalate Esters on TR-1



## Pyrolysis of High Density Polyethylene on TR-1



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