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Nestlé Quality Assurance Center  
Dublin

# Technical Datasheet

**Analysis Name:** Plasticizers in Flex and Board Packaging

**Method Number:** LI-80.079

**Scope of Application:** The scope of application includes the analysis of plasticizers in flexible multilayer materials and in cardboard which may contain plasticizers.

**Description:** The determination of detection above or below a defined target concentration of 31 plasticizers in laminates and cardboards by GC-MS.

**Sample Weight Required:** Minimum of four original (dedicated) containers. The surface area should be at least 10 square decimeters or 160 square inches per submission. Smaller containers will require more than four.

**Analytical Platform:** Sample extraction with Internal Standard analyzed with GC-MS

**Special Information:** All packaging material should be received wrapped in two layers of aluminum foil to ensure prevention of both loss of analyte and external contamination.

We are willing to attempt materials outside of the scope of the method.

Analyte Reported	Alias	Unit of Measure	Screening Test Concentration (STC) $\mu\text{g}/\text{dm}^2$	Reproducibility
Diethyl adipate	DEA	$\mu\text{g}/\text{dm}^2$	10	Above/Below STC
Dimethyl phthalate	DMP	$\mu\text{g}/\text{dm}^2$	10	Above/Below STC
Diethyl phthalate	DEP	$\mu\text{g}/\text{dm}^2$	10	Above/Below STC
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	TXIB	$\mu\text{g}/\text{dm}^2$	170	Above/Below STC
Dimethyl sebacate	DMS	$\mu\text{g}/\text{dm}^2$	10	Above/Below STC



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Diisobutyl adipate	DIBA	µg/dm <sup>2</sup>	10	Above/Below STC
N-Ethyl-p-toluenesulfonamide	N-ETSA	µg/dm <sup>2</sup>	10	Above/Below STC
Dibutyl adipate	DBA	µg/dm <sup>2</sup>	10	Above/Below STC
Dipropyl phthalate	DPrP	µg/dm <sup>2</sup>	10	Above/Below STC
Diethyl sebacate	DES	µg/dm <sup>2</sup>	10	Above/Below STC
Diisobutyl phthalate	DIBP	µg/dm <sup>2</sup>	10	Above/Below STC
Dibutyl phthalate	DBP	µg/dm <sup>2</sup>	10	Above/Below STC
Dibutyl sebacate	DBS	µg/dm <sup>2</sup>	10	Above/Below STC
Tributyl citrate	TBC	µg/dm <sup>2</sup>	20	Above/Below STC
Acetyl tributyl citrate	ATBC	µg/dm <sup>2</sup>	170	Above/Below STC
Di-n-hexyl phthalate	DnHP	µg/dm <sup>2</sup>	10	Above/Below STC
Benzylbutyl phthalate	BBP	µg/dm <sup>2</sup>	10	Above/Below STC
Di- or Bis(2-ethylhexyl) adipate	DEHA	µg/dm <sup>2</sup>	170	Above/Below STC
2-Ethylhexyl diphenyl phosphate	DPOF	µg/dm <sup>2</sup>	80	Above/Below STC
Dicyclohexyl phthalate	DCHP	µg/dm <sup>2</sup>	10	Above/Below STC
Di-n-octyl adipate	DnOA	µg/dm <sup>2</sup>	10	Above/Below STC
Di- or Bis(2-ethylhexyl) phthalate	DEHP	µg/dm <sup>2</sup>	10	Above/Below STC
Tricresyl phosphate	TCP	µg/dm <sup>2</sup>	10	Above/Below STC
Di-n-octyl phthalate	DNOP	µg/dm <sup>2</sup>	10	Above/Below STC
Di-octyl terephthalate	DOTP	µg/dm <sup>2</sup>	10	Above/Below STC
Di-ethyl hexyl sebacate	DEHS	µg/dm <sup>2</sup>	10	Above/Below STC
Di-isononyl-cyclohexane-1,2-dicarboxylate	DINCH	µg/dm <sup>2</sup>	200	Above/Below STC
Diisooctyl phthalate	DIOP	µg/dm <sup>2</sup>	200	Above/Below STC
Diisononyl phthalate	DINP	µg/dm <sup>2</sup>	200	Above/Below STC
Dinonyl phthalate	DNP	µg/dm <sup>2</sup>	200	Above/Below STC
Diisodecyl phthalate	DIDP	µg/dm <sup>2</sup>	200	Above/Below STC