



NQAC

Nestlé Quality Assurance Center  
Dublin

# Technical Datasheet

**Analysis Name:** Plasticizers in Food by GC-MS

**Method Number:** LI-80.060

**Scope of Application:** The method has in-house validated method for the identification and quantification of 26 plasticizers in food products by GC-MS.

**Description:** Plasticizers including 10 phthalates, 4 sebacates, 2 citrates, 5 adipates, and 5 molecules do not belong to particular class.

**Sample Weight Required:** 200 g in original (dedicated) containers

**Method Reference:** EU Commission regulation No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food. Off. J. Eur. Communities, L12/1.

EU Commission Decision 2002/657/EC, Commission Decision of 12 August 2002 implementing Council Directive 96/23/EC concerning the performance of analytical methods and the interpretation of results. Off. J. Eur. Communities, L221/8.

**Analytical Platform:** Extraction using QuEChERs extraction, internal standards and GC-MS analysis

**Special Information:** 200 g sample is needed

The samples should not have been damaged or changed during transport or storage. This includes heat, spoilage or freezing if it adulterates the sample.

If possible, original packaging of the sample or glass jars are preferable as some plastic bags or other containers can contaminate the sample.

Candidate List of Substances of Very High Concern for Authorisation, European Chemicals Agency (ECHA).

[www.echa.europa.eu/](http://www.echa.europa.eu/)



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Analyte Reported	Alias	Unit of Measure	Limit of Quantification µg/kg*	Reproducibility
Diethyl adipate	DEA	µg/kg	50	108
Dimethyl phthalate	DMP	µg/kg	12	93
Diethyl phthalate	DEP	µg/kg	12	26
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	TXIB	µg/kg	12	108
Dimethyl sebacate	DMS	µg/kg	100	17
Diisobutyl adipate	DIBA	µg/kg	12	16
N-Ethyl-p-toluenesulfonamide	N-ETSA	µg/kg	150	13
Dibutyl adipate	DBA	µg/kg	100	8
Dipropyl phthalate	DPrP	µg/kg	12	10
Diethyl sebacate	DES	µg/kg	50	8
Diisobutyl phthalate	DIBP	µg/kg	12	6
Dibutyl phthalate	DBP	µg/kg	12	25
Dibutyl sebacate	DBS	µg/kg	25	20
Tributyl citrate	TBC	µg/kg	25	24
Acetyl tributyl citrate	ATBC	µg/kg	50	11
Di-n-hexyl phthalate	DnHP	µg/kg	12	7
Benzylbutyl phthalate	BBP	µg/kg	50	59
Di- or Bis(2-ethylhexyl) adipate	DEHA	µg/kg	25	22
2-Ethylhexyl diphenyl phosphate	DPOF	µg/kg	25	14
Dicyclohexyl phthalate	DCHP	µg/kg	25	8
Di-n-octyl adipate	DnOA	µg/kg	25	25
Di- or Bis(2-ethylhexyl) phthalate	DEHP	µg/kg	12	22
Tricresyl phosphate	TCP	µg/kg	150	19
Di-n-octyl phthalate	DNOP	µg/kg	25	9
Di-octyl terephthalate	DOTP	µg/kg	50	18
Di-ethyl hexyl sebacate	DEHS	µg/kg	25	32

\*Dependent on matrix