

# Technical Datasheet

<b>Analysis Name:</b>	Determination of Plasticizers in Food by GC-MS
<b>Method Number:</b>	LIBR 090
<b>Scope Application:</b>	This instruction describes a multi-residue method for the determination of plasticizers as phthalates, sebacates, citrates, adipates and others chemicals by GC-MS.
<b>Description:</b>	The analytes are extracted according to the QuEChERS principle [1]. This procedure encompasses an acetonitrile extraction in presence of magnesium sulfate and sodium chloride salts, followed by a centrifugation and a cleanup of the supernatant by dispersive solid phase extraction (d-SPE) using primary secondary amine and C18 sorbents. After a concentration step and a solvent exchange, the resulting solution is analysed by GC-MS in SIM mode
<b>Sample Weight Required:</b>	Sheet of laminated (1 m)
<b>Method Reference:</b>	-
<b>Analytical Platform:</b>	GC-MS
<b>Special Information:</b>	Method not accredited.

Analyte Reported	Alias	Unit of Measure	Typical Limit of Quantification	Uncertainty
Phthalate-benzylbutyl ester (BBP)	-	µg/kg	13	-
Phthalate-di-2-ethylhexyl ester DEHP (QN)	-	µg/kg	13	-
Phthalate-dibutyl ester (DBP)	-	µg/kg	13	-
Phthalate-dicyclohexyl ester (DCHP)	-	µg/kg	13	-
Phthalate dimethyl (DMP)	-	µg/kg	13	-
Phthalate diethy (DEP)	-	µg/kg	13	-
Phthalate di-iso-nonyl (DINP)	-	µg/kg	13	-
Phthalate di-iso-decyl (DIDP)	-	µg/kg	13	-
Dimethyl sebacate (DMS)	-	µg/kg	13	-
Adipate di-(2-ethylhexyl) (DEHA)	-	µg/kg	13	-
Di-(2-ethylhexyl) sebacate (DEHS)	-	µg/kg	13	-

Dibutyl sebacate (DBS)	-	µg/kg	13	-
Phthalate Di-n-octyl (DNOP)	-	µg/kg	13	-
Phthalate Diisooctyl (DIOP)	-	µg/kg	13	-
Phthalate Di-n-hexyl (DnHP)	-	µg/kg	13	-
Phthalate Dinonyl (DNP)	-	µg/kg	13	-
Phthalate Dipropyl (DPrP)	-	µg/kg	13	-
Adipate Diethyl (DEA)	-	µg/kg	13	-
Phthalate di-iso-nonyl (DINP)	-	µg/kg	13	-
Phthalate di-iso-decyl (DIDP)	-	µg/kg	13	-
Phthalate Diisooctyl (DIOP)	-	µg/kg	13	-
Phthalate Di-n-hexyl (DnHP)	-	µg/kg	13	-
Phthalate Dinonyl (DNP)	-	µg/kg	13	-
Phthalate-benzylbutyl ester (BBP)	-	µg/kg	13	-
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