

Technical Datasheet

Analysis Name:	Determination of Residual Solvent by Headspace coupled to GC-MS
Method Number:	LIBR 122
Scope Application:	Description of an in-house validated method (adapted from ASTM) for the quantitative determination of 29 residual solvents by static headspace chromatography in flexible packaging films, which may cause an off-odour during their use with food. The results can be used to confirm solvent type odours detected by the olfactory check
Description:	Sample (1 dm ²) is placed in hermetic vial and incubated during 1h at 85 °C. An aliquot of the headspace is injected into GC/FID or MS in full scan mode for identification and quantification. The amount of residual solvents is determined at equilibrium on one extraction of static headspace technique by external standard calibration
Sample Weight Required:	Sheet of laminated (1 m)
Method Reference:	-
Analytical Platform:	GC-MS
Special Information:	Method not accredited.

Analyte Reported	Alias	Unit of Measure	Typical Limit of Quantification	Uncertainty
1-METHOXY-2-PROPANOL	-	mg/m ²	1.4	-
2-ETHOXY ETHYL ACETATE	-	mg/m ²	1.4	-
2-METHOXYETHANOL	-	mg/m ²	1.4	-
ACETONA	-	mg/m ²	1.4	-
BUTANOL-1	-	mg/m ²	1.4	-
BUTANOL-2	-	mg/m ²	1.4	-
CICLHOEXANO	-	mg/m ²	1.4	-
CYCLOHEXANONE	-	mg/m ²	1.4	-
ETANOL	-	mg/m ²	1.4	-
ETIL ACETATO	-	mg/m ²	1.4	-
ETILMETILCETONA (2-BUTANONA)	-	mg/m ²	1.4	-
ETHYLENE GLYCOL MONOETHYL ETHER	-	mg/m ²	1.4	-
ISOBUTANOL	-	mg/m ²	1.4	-
ISOBUTYL ACETATE	-	mg/m ²	1.4	-

ISOBUTYLMETHYLKETONE	-	mg/m ²	1.4	-
ISOPROPYL ACETATE	-	mg/m ²	1.4	-
METANOL	-	mg/m ²	1.4	-
METHOXY 2-ETHYL ACETATE	-	mg/m ²	1.4	-
ACETATO DE METILA	-	mg/m ²	1.4	-
N-BUTYL ACETATE	-	mg/m ²	1.4	-
PROPANOL, 1-	-	mg/m ²	1.4	-
N-PROPYL ACETATE	-	mg/m ²	1.4	-
PROPANOL, 2-	-	mg/m ²	1.4	-
RESÍDUO DE SOLVENTES	-	mg/m ²	1.4	-
TETRAHYDROFURAN	-	mg/m ²	1.4	-
TOLUENO	-	mg/m ²	1.4	-