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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3114-2012

Determination of phthalic acid esters in adhesives, inks and paints. Gas chromatography-mass spectrometery

黏合剂、油墨、涂料配制品中六种邻苯二甲酸酯的测定 气质联用法

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. People's Republic of China Zhejiang Exit Inspection and Quarantine, People's Republic of China Entry-Exit Inspection and Taizhou Quarantine Bureau.

1 Scope

This standard specifies the adhesives, inks, coatings formulations phthalic acid di (2-ethylhexyl) phthalate (DEHP), dibutyl phthalate Ester (DBP), phenyl butyl phthalate (BBP), diisononyl phthalate (DINP), di-n-octyl phthalate (DNOP), Diisodecyl phthalate (DIDP) Content of GC-MS detection method.

This standard applies to adhesives, inks, coatings formulations phthalic acid di (2-ethylhexyl) phthalate (DEHP), dibutyl phthalate Ester (DBP), phenyl butyl phthalate (BBP), diisononyl phthalate (DINP), di-n-octyl phthalate (DNOP), Diisodecyl phthalate ester determination (DIDP) is.

2 Method summary

Using hexane as the extraction solvent, ultrasonic sample extract was filtered through qualitative filter paper (if needed), after constant volume through the membrane, gas Chromatography - mass spectrometry was measured internal standard. CAS number six kinds of phthalates and the formula given in Appendix A.

3 Reagents and materials

Unless otherwise specified, the reagents used were of analytical grade should be.

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3.1
n-hexane.

3.2
dibutyl phthalate (DBP) standard. Purity >=97%.

3.3
phenyl butyl phthalate (BBP) Standard. Purity >=97%.

3.4
phthalate, di (2-ethylhexyl) phthalate (DEHP) Standard. Purity >=97%.

3.5
phthalate, di-n-octyl phthalate (DNOP) Standard. Purity >=97%.

3.6
diisononyl phthalate (DINP) Standard. Purity >=97%.

3.7
phthalate, diisodecyl phthalate (DIDP) Standard. Purity >=97%.

3.8
Internal standard. di-n-pentyl phthalate ester (a DPP) standard. Purity >=97%.

Phthalate 3.9 standard stock solution. Weigh accurately respectively dibutyl phthalate (DBP) standard (3.2), benzene phthalate Butyrate ester (the BBP) standard (3.3) phthalate, di (2-ethylhexyl) phthalate (DEHP) standard (3.4) each 10.0mg phthalate Di-n-octyl phthalate (DNOP) standard (3.5), diisodecyl phthalate (DIDP) standard (3.7), diisononyl phthalate (DINP) standard (3.6) each 100.0mg, were placed in 100mL flask, formulated with n-hexane (3.1) as DBP, BBP, DEHP concentration of 100mg/L, DNOP, DIDP, DINP concentration of 1000mg/L standard stock solution. Standard stock solution Saved 0 °C ~ 4 °C refrigerator, valid for 12 months.

3.10
standard internal standard stock solution. accurately weighed amount of phthalate, di-n-amyl (DPP) standard (3.8) with n-hexane (3.1) to a concentration of 100mg/L stock standard solution, the standard solution at 0 °C ~ 4 °C refrigerator, valid for 12 months.

3.11
mixed standard working solution. Apply the standard internal standard stock solution (3.10), phthalates standard stock solution (3.9), according to We need to be diluted with n-hexane (3.1) into a mixed standard working solution concentration, working solution was stored at 0 °C ~ 4 °C refrigerator, effective Period of 6 months.

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