Results of Proficiency Test
Phthalates in Polymers
June 2019

Organised by: Institute for Interlaboratory Studies
Spijkenisse, the Netherlands

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1 INTRODUCTION

Phthalates act as softeners and are commonly used as plasticizers in PVC. Phthalates may migrate easily from PVC into the environment. Because Phthalates appeared to have negative effects on health and the environment, regulations have been set up.
The manufacture and import of toys into the EC is regulated by the European Union's Toy Directive 2009/48/EC with in addition the general product safety. The latter is covered by EU directive 1907/2006 (REACH). These regulations govern conditions related to toys intended for children under 36 months of age because this group often suck or chew on toys. Therefore, plastic toys are not allowed to contain more than 0.1 %M/M of DEHP, DBP, BBP and DIBP as individual or combined or more than 0.1%M/M of DINP (lit. 19), DIDP (lit. 20) and DNOP as individual or combined (lit. 21).

Since 2004, the Institute of Interlaboratory Studies (iis) organizes a proficiency scheme for Phthalates in Polymer every year. During the annual proficiency testing program of 2018/2019, it was decided to continue the proficiency test for the analyzes of Phthalates in plastics.
In this interlaboratory study, 207 laboratories in 40 different countries registered for participation. See appendix 4 for the number of participating laboratories per country. In this report, the results of the 2019 proficiency test are presented and discussed. This report is also electronically available through the iis website www.iisnl.com.

2 SET UP

The Institute for Interlaboratory Studies (iis) in Spijkenisse, the Netherlands, was the organizer of this proficiency test (PT). Sample analyzes for fit-for-use and homogeneity testing were subcontracted to an ISO/IEC17025 accredited laboratory. It was decided to send two different polyvinylchloride (PVC) samples which were made positive with some Phthalates. One sample contained 3 grams of orange rings, labelled #19545 and the other sample contained 3 grams of purple blocks, labelled #19546. The participants were requested to report rounded and unrounded test results. The unrounded test results were preferably used for statistical evaluation.

2.1 ACCREDITATION

The Institute for Interlaboratory Studies in Spijkenisse, the Netherlands, is accredited in agreement with ISO/IEC17043:2010 (R007), since January 2000, by the Dutch Accreditation Council (Raad voor Accreditatie). This PT falls under the accredited scope. This ensures strict adherence to protocols for sample preparation and statistical evaluation and 100% confidentiality of participant's data. Feedback from the participants on the reported data is encouraged and customer's satisfaction is measured on regular basis by sending out questionnaires.

2.2 PROTOCOL

The protocol followed in the organization of this proficiency test was the one as described for proficiency testing in the report 'iis Interlaboratory Studies: Protocol for the Organisation, Statistics and Evaluation' of June 2018 (iis-protocol, version 3.5). This protocol is electronically available through the iis website www.iisnl.com, from the FAQ page.

2.3 CONFIDENTIALITY STATEMENT

All data presented in this report must be regarded as confidential and for use by the participating companies only. Disclosure of the information in this report is only allowed by means of the entire report. Use of the contents of this report for third parties is only allowed by written permission of the Institute for Interlaboratory Studies. Disclosure of the identity of one or more of the participating companies will be done only after receipt of a written agreement of the companies involved.

2.4 SAMPLES

The first polymer sample consists of orange coloured PVC rings. This polymer was made positive with DMP, DEP, DPRP and DBP by a third-party laboratory. Sample bags were filled with 3 grams polymer material and labelled #19545. The homogeneity of the subsamples #19545 was checked by determination of all added Phthalates on 8 stratified randomly selected subsamples.

	DMP in %M/M	DEP in %M/M	DPRP in %M/M	DBP in %M/M
sample #19545-1	0.0965	0.1006	0.0996	0.1000
sample #19545-2	0.0961	0.0990	0.0974	0.0995
sample #19545-3	0.0947	0.0967	0.0970	0.0975
sample #19545-4	0.0962	0.0979	0.0981	0.0994
sample #19545-5	0.0936	0.0960	0.0972	0.0964
sample #19545-6	0.0928	0.0964	0.0969	0.0971
sample #19545-7	0.0928	0.0976	0.0960	0.0979
sample #19545-8	0.0983	0.1005	0.1005	0.0998

Table 1: homogeneity test results of subsamples #19545

From the above test results the repeatabilities were calculated and compared with 0.3 times the corresponding reproducibility of the reference method in agreement with the procedure of ISO13528, Annex B2 in the next table.

	DMP in %M/M	DEP in %M/M	DPRP in %M/M	DBP in %M/M
r (observed)	0.0055	0.0050	0.0042	0.0039
reference method	iis memo 1701*)	iis memo 1701*)	iis memo 1701*)	iis memo 1701*)
0.3 * R (ref. method)	0.0128	0.0132	0.0132	0.0132

Table 2: evaluation of the repeatabilities of subsamples #19545
*) see lit. 24

The calculated repeatabilities were in agreement with 0.3 times the corresponding reproducibility of the reference method. Therefore, the homogeneity of subsamples #19545 was assumed.

The second polymer sample consists of purple coloured PVC blocks. This polymer was made positive with DEP, DIBP, DEHP and DIDP by a third-party laboratory. Sample bags were filled with 3 grams polymer material and labelled #19546. The homogeneity of the subsamples #19546 was checked by determination of all added Phthalates on 8 stratified randomly selected subsamples.

	DEP in %M/M	DIBP in %M/M	DEHP in %M/M	DIDP in %M/M
sample #19546-1	0.2025	0.1384	0.2966	0.3491
sample #19546-2	0.2007	0.1360	0.3018	0.3463
sample #19546-3	0.2053	0.1438	0.3104	0.3526
sample #19546-4	0.1998	0.1361	0.2928	0.3353
sample #19546-5	0.1985	0.1346	0.3039	0.3395
sample #19546-6	0.1967	0.1351	0.2970	0.3486
sample #19546-7	0.2017	0.1351	0.3025	0.3377
sample #19546-8	0.2054	0.1405	0.3076	0.3436

Table 3: homogeneity test results of subsamples #19546

From the above test results the repeatabilities were calculated and compared with 0.3 times the corresponding reproducibility of the reference method in agreement with the procedure of ISO13528, Annex B2 in the next table.

	DEP in %M/M	DIBP in %M/M	DEHP in %M/M	DIDP in %M/M
r (observed)	0.0086	0.0091	0.0165	0.0171
reference method	iis memo 1701*)	iis memo 1701*)	iis memo 1701*)	iis memo 1701*)
0.3 * R (ref. method)	0.0271	0.0185	0.0405	0.0463

Table 4: evaluation of repeatabilities of subsamples #19546
*) see lit. 24

The calculated repeatabilities were in agreement with 0.3 times the corresponding reproducibility of the reference method. Therefore, the homogeneity of subsamples #19546 was assumed.

To each of the participating laboratories, one sample #19545 and one sample #19546 were sent on May 8, 2019.

2.5 ANALYSES

The participants were requested to determine on both samples #19545 and #19546 fifteen individual Phthalates, see appendices 1 and 2. It was also requested to report if the laboratory was accredited for the determined components and to report some analytical details.

It was explicitly requested to treat the samples as if they were routine samples and to report the test results using the indicated units on the report form and not to round the test results but report as much significant figures as possible. It was also requested not to report ‘less than’ test results which are above the detection limit, because such results can not be used for meaningful statistical evaluations.

To get comparable test results, a detailed report form and a letter of instructions are prepared. On the report form, the reporting units are given as well as the appropriate reference test methods that will be used during the evaluation. The detailed report form and the letter of instructions are both made

available on the data entry portal www.kpmd.co.uk/sgs-iis-cts/. The participating laboratories are also requested to confirm the sample receipt on this data entry portal. The letter of instructions can also be downloaded from the iis website www.iisnl.com.

3 RESULTS

During five weeks after sample dispatch, the test results of the individual laboratories were gathered via the data entry portal www.kpmd.co.uk/sgs-iis-cts/. The reported test results are tabulated per sample and per determination in appendices 1 and 2 of this report. The laboratories are presented by their code numbers.

Directly after the deadline, a reminder was sent to those laboratories that had not reported test results at that moment.
Shortly after the deadline, the available test results were screened for suspect data. A test result was called suspect in case the Huber Elimination Rule (a robust outlier test) found it to be an outlier. The laboratories that produced these suspect data were asked to check the reported test results (no re-analyses). Additional or corrected test results are used for the data analysis and the original test results are placed under 'Remarks' in the result tables in appendices 1 or 2. Test results that came in after the deadline were not taken into account in this screening for suspect data and thus these participants were not requested for checks.

3.1 STATISTICS

The protocol followed in the organization of this proficiency test wast the one as described for proficiency testing in the report 'iis Interlaboratory Studies: Protocol for the Organisation, Statistics and Evaluation' of June 2018 (iis-protocol, version 3.5).
For the statistical evaluation the *unrounded* (when available) figures were used instead of the rounded test results. Test results reported as ‘<...’ or ‘>...’ were not used in the statistical evaluation.

First, the normality of the distribution of the various data sets per determination was checked by means of the Lilliefors-test, a variant of the Kolmogorov-Smirnov test and by the calculation of skewness and kurtosis. Evaluation of the three normality indicators in combination with the visual evaluation of the graphic Kernel density plot, lead to judgement of the normality being either ‘unknown’, ‘OK’, ‘suspect’ or ‘not OK’. After removal of outliers, this check was repeated. If a data set does not have a normal distribution, the (results of the) statistical evaluation should be used with due care.

According to ISO5725 the original test results per determination were submitted to Dixon’s, Grubbs’ and/or Rosner’s outlier tests. Outliers are marked by D(0.01) for the Dixon’s test, by G(0.01) or DG(0.01) for the Grubbs’ test and by R(0.01) for the Rosner’s test. Stragglers are marked by D(0.05) for the Dixon’s test, by G(0.05) or DG(0.05) for the Grubbs’ test and by R(0.05) for the Rosner’s test. Both outliers and stragglers were not included in the calculations of averages and standard deviations.

For each assigned value, the uncertainty was determined in accordance with ISO13528. Subsequently the calculated uncertainty was evaluated against the respective requirement based on the target reproducibility in accordance with ISO13528. In this PT, the criterion of ISO13528, paragraph 9.2.1 was met for all evaluated tests, therefore, the uncertainty of all assigned values may be negligible and need not be included in the PT report.

Finally, the reproducibilities were calculated from the standard deviations by multiplying them with a factor of 2.8.

3.2 GRAPHICS

In order to visualize the data against the reproducibilities from literature, Gauss plots were made, using the sorted data for one determination (see appendix 1). On the Y-axis the reported test results are plotted. The corresponding laboratory numbers are on the X-axis.

The straight horizontal line presents the consensus value (a trimmed mean). The four striped lines, parallel to the consensus value line, are the +3s, +2s, -2s and -3s target reproducibility limits of the selected reference method. Outliers and other data, which were excluded from the calculations, are represented as a cross. Accepted data are represented as a triangle.

Furthermore, Kernel Density Graphs were made. The Kernel Density Graph is a method for producing a smooth density approximation to a set of data that avoids some problems associated with histograms. Also, a normal Gauss curve was projected over the Kernel Density Graph for reference.

3.3 Z-SCORES

To evaluate the performance of the participating laboratories the z-scores were calculated. As it was decided to evaluate the performance of the participants in this proficiency test (PT) against the literature requirements, the z-scores were calculated using a target standard deviation. This results in an evaluation independent of the variation in this interlaboratory study.

The target standard deviation was calculated from the literature reproducibility by division with 2.8. In case no literature reproducibility was available, other target values were used.

When a laboratory did use a test method with a reproducibility that is significantly different from the reproducibility of the reference test method used in this report, it is strongly advised to recalculate the z-score, while using the reproducibility of the actual test method used, this in order to evaluate whether the reported test result is fit-for-purpose.

The z-scores were calculated according to:

$$z_{(target)} = (\text{test result} - \text{average of PT}) / \text{target standard deviation}$$

The $z_{(target)}$ scores are listed in the result tables of appendix 1.

Absolute values for z<2 are very common and absolute values for z>3 are very rare. Therefore, the usual interpretation of z-scores is as follows:

	|z| < 1	good
1 <	|z| < 2	satisfactory
2 <	|z| < 3	questionable
3 <	|z|	unsatisfactory

4 EVALUATION

In this interlaboratory study no problems were encountered with the dispatch of the samples. Twelve participants reported after the final reporting date and five participants did not report any test results at all. Finally, 202 laboratories reported 1475 numerical results. Observed were 47 statistically outlying test results, which is 3.2% of all results. In proficiency studies outlier percentages of 3% - 7.5% are quite normal.

Not all original data sets proved to have a normal Gaussion distribution. These are referred to as “not OK” or “suspect”. The statistical evaluation of these data sets should be used with due care, see also paragraph 3.1.

4.1 EVALUATION PER SAMPLE AND PER COMPONENT

In this section, the reported test results are discussed per sample and per component. The test methods, which were used by the various laboratories were taken into account for explaining the observed differences when possible and applicable. These test methods are also in the tables together with the original data in appendix 1. The abbreviations, used in these tables, are listed in appendix 5.

Regretfully, the CPSC method does not contain any precision statements. ISO14389:14 does provide a variety of precision data. There are precision data mentioned for 4 different procedures in ISO14389:14 of which procedure 4, prescribes the extraction with THF followed by precipitation with Acetonitril. The reproducibility RSD_R for 7 different phthtalates ranges from 31.5% - 124.9%. Therefore, it is not surprising that in Annex D of test method ISO14389:14 is mentioned that “*Results indicated that both the four methods for Phthalates and the laboratories’ performance have to be drastically improved*”. It was decided in 2017 to use the iis PT data gathered since 2010 to estimate a more realistic target reproducibility. This estimated target reproducibility was calculated from the relative standard deviation of 16% (lit. 24, iis memo 1701) multiplied by 2.8. This was used for the evaluation of the test results in this PT.

Sample #19545

DBP: The determination of DBP was not problematic. One statistical outlier was observed. The calculated reproducibility after rejection of the statistical outlier is in agreement with the target requirements as derived from the iis memo 1701.

DINP: The determination of DINP may be problematic at the level of 0.015%M/M. Fourteen statistical outliers were observed. The calculated reproducibility after rejection of the statistical outliers is not in agreement with the target requirements as derived from the iis memo 1701.

DEP: The determination of DEP was not problematic. Two statistical outliers were observed. However, the calculated reproducibility after rejection of the statistical outliers is in agreement with the target requirements as derived from the iis memo 1701.

DMP: The determination of DMP was not problematic. Six statistical outliers were observed. However, the calculated reproducibility after rejection of the statistical outliers is in agreement with the target requirements as derived from the Iis memo 1701.

DPRP: The determination of DPRP was not problematic. Two statistical outliers were observed. However, the calculated reproducibility after rejection of the statistical outliers is in agreement with the target requirements as derived from the Iis memo 1701.

For all other Phthalates the group of participants agreed on a concentration below <0.01 %M/M. Therefore, these Phthalates were not evaluated. See appendix 2 for the reported test results.

Sample #19546

DEHP: The determination of DEHP was not problematic. Four statistical outliers were observed. However, the calculated reproducibility after rejection of the statistical outliers is in agreement with the target requirements as derived from the Iis memo 1701.

DIDP: The determination of DIDP was not problematic. Three statistical outliers were observed. However, the calculated reproducibility after rejection of the statistical outliers is in full agreement with the target requirements as derived from the iis memo 1701.

DINP: For the determination of DINP it was decided not to calculate z-scores as the concentration is near the detection limit. Fifty participants reported a numeric test results >0.01%M/M. Another thirty-six participants reported “less than” test results, which were almost all below 0.01%M/M. As this will influence the statistical evaluation the “less than” test results could not be ignored (see also page 29).

DEP: The determination of DEP was not problematic. Two statistical outliers were observed. However, the calculated reproducibility after rejection of the statistical outliers is in agreement with the target requirements as derived from the iis memo 1701.

DIBP: The determination of DIBP was not problematic. Twelve statistical outliers were observed. However, the calculated reproducibility after rejection of the statistical outliers is in agreement with the target requirements as derived from the iis memo 1701.

For all other Phthalates the group of participants agreed on a concentration below <0.01 %M/M. Therefore, these Phthalateswere not evaluated. See appendix 2 for the reported test results.

4.2 PERFORMANCE EVALUATION FOR THE GROUP OF LABORATORIES

A comparison has been made between the reproducibility as declared by the relevant reference method and the reproducibility as found for the group of participating laboratories. The number of significant test results, the average result, the calculated reproducibility (2.8 * standard deviation) and the target reproducibility derived from literature reference methods (in casu iis memo 1701) are presented in the next tables.

Component	unit	n	average	2.8 * sd	R (target)
DBP	%M/M	197	0.093	0.036	0.042
DINP	%M/M	104	0.015	0.009	0.007
DEP	%M/M	143	0.090	0.037	0.040
DMP	%M/M	129	0.075	0.029	0.034
DPRP	%M/M	112	0.092	0.030	0.041

Table 5: reproducibilities of tests on sample #19545

Component	unit	n	average	2.8 * sd	R (target)
DEHP	%M/M	197	0.315	0.131	0.141
DIDP	%M/M	174	0.398	0.177	0.178
DINP	%M/M	46	0.0205	0.018	(0.009)
DEP	%M/M	142	0.174	0.069	0.078
DIBP	%M/M	181	0.124	0.037	0.055

Table 6: reproducibilities of tests on sample #19546

Without further statistical calculations, it could be concluded that for the majority of Phthalates present in the samples, there is a good compliance of the group of participating laboratories with the relevant target. The problematic tests have been discussed in paragraph 4.1.

4.3 COMPARISON OF THE PROFICIENCY TEST OF JUNE 2019 WITH PREVIOUS PTS

	June 2019	May 2018	May 2017	May 2016	May 2015
Number of reporting labs	202	188	186	170	184
Number of results reported	1475	1289	1339	1258	1014
Statistical outliers	47	60	18	66	43
Percentage outliers	3.2%	4.7%	1.3%	5.2%	4.2%

Table 7: comparison with previous proficiency tests

In proficiency tests, outlier percentages of 3% - 7.5% are quite normal.
The performance of the determinations of the proficiency test was compared, expressed as relative standard deviation (RSD) of the PTs, see table.

Component	June 2019	May 2018	May 2017	May 2016	May 2015	2014 - 2004	target
BBP	--	11%	--	13%	--	11 -15%	16%
DEHP	15%	13%	17 – 29%	13%	13%	13 – 19%	16%
DBP	14%	13%	16 – 17%	12%	15%	11 – 17%	16%
DIDP	16%	--	--	--	17%	15 – 20%	16%
DINP 1)	23%	22%	31%	19%	--	12 – 26%	16%
DNOP	--	19%	--	18%	23%	15 – 21%	16%
DCHP	--	11%	--	--	16%	--	16%
DEP	14 – 15%	8%	--	--	13%	--	16%
DMP	14%	--	--	12%	--	--	16%
DNHP	--	--	17%	--	--	--	16%
DIBP	11%	--	--	--	14%	--	16%
DPHP	--	--	--	--	--	11%	16%
DNPP	--	14%	16%	--	15%	--	16%
DPRP	12%	--	--	--	--	--	16%

Table 8: development of uncertainties of Phthalates over the years
1) Mix of DINP-1 and DINP-2 isomers

The uncertainties observed in this PT are comparable to the uncertainties observed in previous PTs and within the target uncertainty for most Phthalates.

4.4 EVALUATION OF THE ANALYTICAL DETAILS

In this PT, it was asked to report, besides some analytical details, whether the laboratory was accredited for the determination of Phthalates in Polymers. The majority (80%) of the participants reported to be ISO/IEC17025 accredited for the determination of Phthalates in Polymer. As this is the majority of the group no separate statistical analysis has been performed.

About 45% of the laboratories reported to have used CPSC-CH-C1001-09.3/09.4 as test method and about 13% of the laboratories reported to have used ISO14389 as test method. Both test methods are based on THF extraction. About 16% of the laboratories reported to have used an in house method, other methods reported to be used were for example EN14372, IEC62321-8, ISO/TS16181 and ISO8124-6.
In this proficiency test, the majority (70%) of the laboratories reported to have used THF as extraction solvent. The requested analytical details showed no significant differences.
Details of the method information as reported by the participating laboratories are listed in appendix 3.

5 DISCUSSION

From 2008 - 2010 significant differences between the EN14372 results and the results from THF dissolution were observed. In the PTs of 2011 – 2014 this was no longer the case. In the proficiency test from 2015 onwards, the majority of laboratories used THF as extraction solvent. Also, in this proficiency test the majority of the laboratories used THF as solvent to release the Phthalates from the polymer material.

Sample #19546 was also used in a previous iis PT iis15P03 as sample #15065. The results found in both PTs are in line. The calculated reproducibility slightly improve for a few components in this sample when compared to the 2015 PT.

	Sample #19546				Sample #15065			
Component	unit	n	average	R(calc)	unit	n	average	R(calc)
DEHP	%M/M	197	0.315	0.131	%M/M	176	0.324	0.120
DIDP	%M/M	174	0.398	0.177	%M/M	166	0.417	0.202
DEP	%M/M	142	0.174	0.069	%M/M	56	0.169	0.062
DIBP	%M/M	181	0.124	0.037	%M/M	162	0.124	0.047

Table 9: comparison of sample #19546 with #15065

6 CONCLUSION

The majority of the group identified all positive Phthalates correctly: #19545 contained DBP, DINP, DEP, DMP and DPRP and sample #19546 contained DEHP, DIDP, DEP and DIBP.

Plastic toys may contain either individual or in mixtures less than 0.1 %M/M of DEHP, DBP, BBP and DIBP or less than 0.1%M/M of DINP, DIDP and DNOP.
When the results of this interlaboratory study were compared to the above regulations, it is noticed that the almost all of the reporting laboratories would reject both samples #19545 and #19546 for containing too much Phthalates.

Although it can be concluded that most of the participants have no problem with the determination on Phthalates in Polymers in this PT, each participating laboratory will have to evaluate its performance in this study and decide about any corrective actions if necessary.

Therefore, participation on a regular basis in this scheme could be helpful to improve the performance and thus increase of the quality of the analytical results.

APPENDIX 1

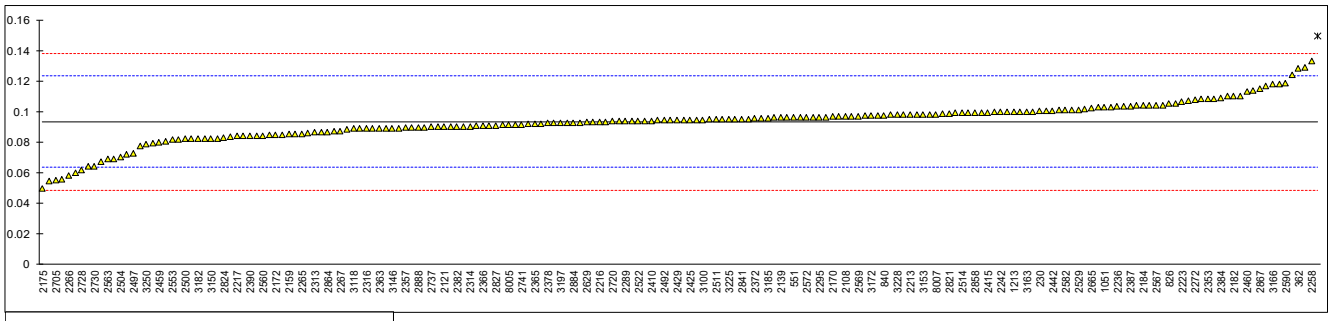
Determination of DBP – Dibutylphthalate on sample #19545; results in %M/M

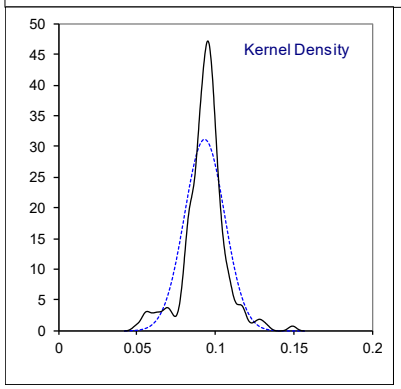
Lab	method	Value	mark	z(targ)	Lab	method	value	mark	z(targ)
110	In house	0.0804		-0.87	2357	CPSC-CH-C1001-09.3	0.0896		-0.25
210	ISO14389	0.09441		0.07	2358	CPSC-CH-C1001-09.3	0.1028714	C	0.64
230	ISO14389	0.1004		0.47	2363	CPSC-CH-C1001-09.4	0.089		-0.29
330	In house	0.117		1.58	2365	IEC62321-8	0.09187		-0.10
339	In house	0.124		2.05	2366	CPSC-CH-C1001-09.4	0.091		-0.16
348		0.0896		-0.25	2369	CPSC-CH-C1001-09.3	0.091		-0.16
362	In house	0.128		2.32	2370	CNC15138-1	0.0920		-0.09
523	CPSC-CH-C1001-09.4	<0.099058		-----	2372	EN14372	0.0956		0.15
551	In house	0.0960		0.18	2374	In house	0.089		-0.29
623	CPSC-CH-C1001-09.3	0.067		-1.76	2375	CPSC-CH-C1001-09.3	0.096		0.18
632	CPSC-CH-C1001-09.3	0.100044		0.45	2378	EN14372	0.0925		-0.06
658	CPSC-CH-C1001-09.3	0.089		-0.29	2379		0.056		-2.50
826	IEC62321-8	0.105		0.78	2380	ISO14389	0.09252		-0.05
840	CPSC-CH-C1001-09.3	0.0977		0.29	2381	CPSC-CH-C1001-09.3	0.0996		0.42
1051	GB/T22048	0.1030		0.65	2382	ISO14389	0.0900		-0.22
1213		0.100		0.45	2384	IEC62321-8	0.109		1.05
2102	In house	0.10106		0.52	2386	ISO14389	0.0886		-0.32
2104	CPSC-CH-C1001-09.3	0.1496	R(0.01)	3.77	2387	IEC62321-8	0.10375		0.70
2108	ISO14389	0.097		0.25	2390	CPSC-CH-C1001-09.3	0.084	C	-0.63
2115	CPSC-CH-C1001-09.3	0.084		-0.63	2410	CPSC-CH-C1001-09.3	0.09403		0.05
2121	ISO14389	0.09		-0.22	2415	ISO14389	0.0994		0.41
2129	ISO14389	0.1031		0.65	2425	In house	0.0947		0.09
2132	CPSC-CH-C1001-09.4	0.1041		0.72	2426	CPSC-CH-C1001-09.4	0.099561	C	0.42
2137	IEC62321-8	0.099		0.38	2429	CPSC-CH-C1001-09.3	0.0944		0.07
2138	IEC62321-8	0.110		1.12	2431	CPSC-CH-C1001-09.3	0.094		0.04
2139	KS M1991	0.096		0.18	2438		-----		-----
2156	CPSC-CH-C1001-09.3	0.095118		0.12	2442	CPSC-CH-C1001-09.3	0.10067		0.49
2159	ISO14389	0.0852		-0.54	2453	CPSC-CH-C1001-09.3	0.085		-0.56
2165	CPSC-CH-C1001-09.4	0.0964		0.21	2459	CPSC-CH-C1001-09.4	0.0799		-0.90
2170	CPSC-CH-C1001-09.3	0.09683		0.23	2460	CPSC-CH-C1001-09.3	0.1129		1.31
2172	In house	0.0849		-0.56	2462	CPSC-CH-C1001-09.4	0.097		0.25
2175		0.04974		-2.92	2467	CPSC-CH-C1001-09.3	0.0972		0.26
2182	CPSC-CH-C1001-09.3	0.1100		1.12	2475	In house	0.0991		0.39
2184	ISO8124	0.1040		0.71	2476	CPSC-CH-C1001-09.3	0.0975		0.28
2190	In house	0.11		1.12	2482	CPSC-CH-C1001-09.3	0.0911		-0.15
2201	CPSC-CH-C1001-09.3	0.0940		0.04	2486	In house	0.085358		-0.53
2202	In house	0.0836	C	-0.65	2488	In house	0.0863		-0.47
2213	ISO14389	0.098		0.31	2492	In house	0.0942		0.06
2216	CPSC-CH-C1001-09.4	0.09342		0.01	2495	CPSC-CH-C1001-09.3	0.09054		-0.19
2217		0.084		-0.63	2497	CPSC-CH-C1001-09.3	0.0729		-1.37
2218	CPSC-CH-C1001-09.3	0.09416		0.06	2500	CPSC-CH-C1001-09.4	0.0822		-0.75
2222	In house	0.06		-2.23	2503		0.095		0.11
2223	In house	0.1067		0.89	2504	CPSC-CH-C1001-09.4	0.070		-1.56
2230	CPSC-CH-C1001-09.4	0.090		-0.22	2507	CPSC-CH-C1001-09.3	< 0.100		-----
2232	CPSC-CH-C1001-09.4	0.0979		0.31	2510	In house	0.100		0.45
2236		0.103216		0.66	2511		0.0950		0.11
2242		0.0996		0.42	2514	ISO14389	0.0990		0.38
2247	ISO14389	0.1070		0.91	2522	CPSC-CH-C1001-09.3	0.094		0.04
2250	ISO14389	0.0962		0.19	2529	CPSC-CH-C1001-09.4	0.10109		0.52
2255	ISO14389	0.0980		0.31	2538		-----		-----
2256	ISO8124	0.072		-1.43	2549	ISO14389	0.0925	C	-0.06
2258	CPSC-CH-C1001-09.3	0.13292		2.65	2553	In house	0.0817	C	-0.78
2265	ISO14389	0.0856		-0.52	2560	CPSC-CH-C1001-09.3	0.08424		-0.61
2266	CPSC-CH-C1001-09.3	0.058	C	-2.37	2563	ISO14389	0.069		-1.63
2267	In house	0.087	C	-0.42	2567	CPSC-CH-C1001-09.3	0.1041		0.72
2272	ISO14389	0.1079		0.98	2569	CPSC-CH-C1001-09.3	0.097		0.25
2284	CPSC-CH-C1001-09.3	0.0826		-0.72	2572	CPSC-CH-C1001-09.3	0.0961		0.18
2288	CPSC-CH-C1001-09.3	0.09849		0.35	2582	ISO14389	0.10105		0.52
2289	ISO8124-6 Meth.C	0.094		0.04	2590	CPSC-CH-C1001-09.3	0.11853		1.69
2290	CPSC-CH-C1001-09.3	0.0952		0.12	2591	CPSC-CH-C1001-09.3	0.118		1.65
2293	CPSC-CH-C1001-09.3	0.104		0.71	2629	CPSC-CH-C1001-09.4	0.093		-0.02
2295	CPSC-CH-C1001-09.3	0.0963		0.20	2641	CPSC-CH-C1001-09.4	0.0776		-1.05
2301	CPSC-CH-C1001-09.3	0.090		-0.22	2642	CPSC-CH-C1001-09.4	0.09267		-0.04
2310	CPSC-CH-C1001-09.3	0.090		-0.22	2665	In house	0.102		0.58
2311	CPSC-CH-C1001-09.3	0.08908		-0.29	2668	CPSC-CH-C1001-09.3	0.0942		0.06
2313	ISO14389	0.0863		-0.47	2672	In house	0.08983		-0.23
2314		0.0903		-0.20	2674	CPSC-CH-C1001-09.4	0.1041		0.72
2316	IEC62321-8	0.0889	C	-0.30	2678		-----		-----
2330	CPSC-CH-C1001-09.3/4	0.11374		1.37	2705	In house	0.0552		-2.55
2347		0.1017		0.56	2720	CPSC-CH-C1001-09.3	0.0936		0.02
2350	CPSC-CH-C1001-09.3/4	0.0978		0.30	2722	CPSC-CH-C1001-09.3	0.101		0.51
2352	CPSC-CH-C1001-09.4	0.0933		0.00	2728	EN71-5	0.06177		-2.11
2353	IEC62321-8	0.10838		1.01	2730		0.064		-1.96
2355	IEC62321-8	0.0845		-0.59	2734	CPSC-CH-C1001-09.3	0.05454		-2.60

lab	method	value	mark	z(targ)	lab	method	Value	mark	z(targ)
2736		0.0957		0.16	3154	In house	0.095		0.11
2737	ISO14389	0.08999		-0.22	3160	ISO/TS16181	0.082		-0.76
2741	ISO14389	0.0915		-0.12	3163		0.1	C	0.45
2774	ISO14389	0.0947		0.09	3166	In house	0.1177		1.63
2787	CPSC-CH-C1001-09.2	0.10814		0.99	3172	CPSC-CH-C1001-09.3	0.0972		0.26
2805	CPSC-CH-C1001-09.4	0.0918		-0.10	3176	CPSC-CH-C1001-09.3	0.0869		-0.43
2816		-----		-----	3182	CPSC-CH-C1001-09.3	0.0825		-0.73
2821	AfPS GS2014	0.0988		0.37	3185	CPSC-CH-C1001-09.4	0.0958		0.16
2824	CPSC-CH-C1001-09.3	0.083045		-0.69	3191	CPSC-CH-C1001-09.4	0.0935		0.01
2826	CPSC-CH-C1001-09.3	0.096		0.18	3192		-----		-----
2827	ISO14389	0.091		-0.16	3197	CPSC-CH-C1001-09.3	0.0925		-0.06
2829		-----		-----	3209	CPSC-CH-C1001-09.4	0.0983		0.33
2835		0.0639106		-1.97	3210	In house	0.09594		0.17
2841	In house	0.09517		0.12	3213	IEC62321-8	0.07918		-0.95
2855	IEC62321-8	0.1006		0.49	3214	CPSC-CH-C1001-09.4	0.0822		-0.75
2858	ISO14389	0.099286		0.40	3218	CPSC-CH-C1001-09.3	0.0887		-0.31
2863		0.086		-0.49	3225	CPSC-CH-C1001-09.4	0.09505		0.11
2864	CPSC-CH-C1001-09.3	0.0863		-0.47	3228	CPSC-CH-C1001-09.4	0.0978		0.30
2867	CPSC-CH-C1001-09.3	0.1150		1.45	3237	CPSC-CH-C1001-09.3	0.0825		-0.73
2879	CPSC-CH-C1001-09.3	0.0913		-0.14	3238		-----		-----
2884		0.09257		-0.05	3239	In house	0.129		2.39
2888	In house	0.089607		-0.25	3243	In house	0.1035		0.68
2892	CPSC-CH-C1001-09.4	0.1086		1.02	3248	In house	0.084		-0.63
3100	ISO8124-6 Meth.C	0.0947		0.09	3250	CPSC-CH-C1001-09.3	0.079		-0.96
3116	In house	0.0969		0.24	8005	In house	0.0911		-0.15
3118	CPSC-CH-C1001-09.3	0.0887		-0.31	8006	In house	0.094		0.04
3122	CPSC-CH-C1001-09.3	0.069		-1.63	8007	CPSC-CH-C1001-09.3	0.0983		0.33
3146	In house	0.089		-0.29	8020	CPSC-CH-C1001-09.4	0.0993		0.40
3150	CPSC-CH-C1001-09.4	0.08258		-0.72	8021	Japan ST2016	0.1051		0.79
3153	CPSC-CH-C1001-09.4	0.0980		0.31					

normality	not OK	
n	197	
outliers	1	
mean (n)	0.09334	
st.dev. (n)	0.012825	RSD = 14%
R(calc.)	0.03591	
st.dev.(iis memo 1701)	0.014934	
R(iis memo 1701)	0.04182	

Lab 2202: first reported 0.2050
Lab 2266: first reported 0.69
Lab 2267: first reported 0.044
Lab 2316: first reported 0.04457
Lab 2358: first reported 1028.74%M/M
Lab 2390: first reported 0.191
Lab 2426: reported 995.61 %M/M
Lab 2549: first reported 925 %M/M
Lab 2553: first reported 817.19 %M/M
Lab 3163: first reported 1000 %M/M





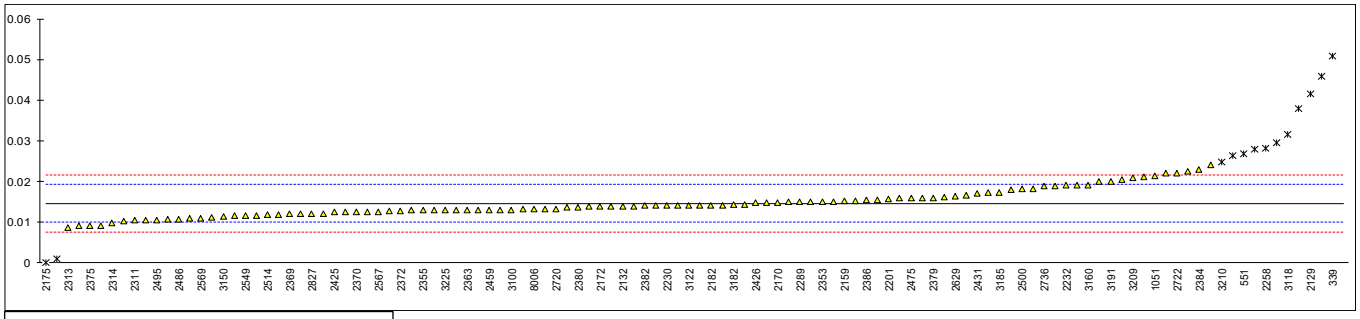
Determination of DINP – Diisononylphthalate on sample #19545; results in %M/M

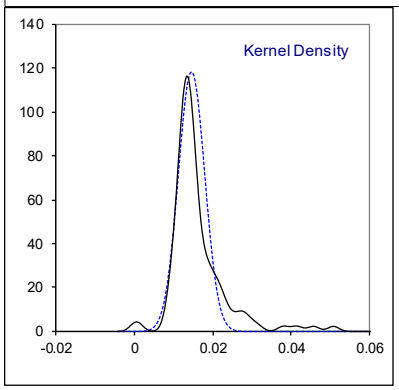
Lab	method	Value	mark	z(targ)	Lab	method	value	mark	z(targ)
110	In house	0.0102		-1.87	2357	CPSC-CH-C1001-09.3	0.0141		-0.20
210		-----		-----	2358	CPSC-CH-C1001-09.3	0.0150232	C	0.20
230		-----		-----	2363	CPSC-CH-C1001-09.4	0.013		-0.67
330	In house	0.02		2.33	2365	IEC62321-8	0.01440		-0.07
339	In house	0.0508	R(0.01)	15.55	2366	CPSC-CH-C1001-09.4	0.019		1.90
348		<0.005	false -	<-4.10	2369	CPSC-CH-C1001-09.3	0.012		-1.10
362		-----		-----	2370	CNC15138-1	0.0125		-0.89
523	CPSC-CH-C1001-09.4	<0.0075	false -	<-3.03	2372	EN14372	0.0128		-0.76
551	In house	0.0267	R(0.01)	5.21	2374	In house	0.013		-0.67
623	CPSC-CH-C1001-09.3	n.d.		-----	2375	CPSC-CH-C1001-09.3	0.009		-2.39
632	CPSC-CH-C1001-09.3	<0.005	false -	<-4.10	2378	EN14372	0.0179		1.43
658	CPSC-CH-C1001-09.3	ND		-----	2379		0.016		0.62
826		-----		-----	2380	ISO14389	0.01371		-0.37
840	CPSC-CH-C1001-09.3	0.0129		-0.71	2381	CPSC-CH-C1001-09.3	0.0117		-1.23
1051	GB/T22048	0.0214		2.93	2382	ISO14389	0.0140		-0.24
1213		0.015		0.19	2384	IEC62321-8	0.023		3.62
2102	In house	0.04572	R(0.01)	13.37	2386	ISO14389	0.0155		0.40
2104		-----		-----	2387		-----		-----
2108	ISO14389	0.012		-1.10	2390	CPSC-CH-C1001-09.3	0.024		4.05
2115		-----		-----	2410		-----		-----
2121		-----		-----	2415	ISO14389	0.0115		-1.32
2129	ISO14389	0.0415	R(0.01)	11.56	2425	In house	0.0124		-0.93
2132	CPSC-CH-C1001-09.4	0.0139		-0.29	2426	CPSC-CH-C1001-09.4	0.0147	C	0.06
2137		-----		-----	2429	CPSC-CH-C1001-09.3	0.0124		-0.93
2138	IEC62321-8	N.D.		-----	2431	CPSC-CH-C1001-09.3	0.017		1.04
2139		-----		-----	2438		-----		-----
2156	CPSC-CH-C1001-09.3	<0.01		-----	2442	CPSC-CH-C1001-09.3	0.01729		1.17
2159	ISO14389	0.0152		0.27	2453		-----		-----
2165		-----		-----	2459	CPSC-CH-C1001-09.4	0.0130		-0.67
2170	CPSC-CH-C1001-09.3	0.01485		0.12	2460	CPSC-CH-C1001-09.3	0.0225		3.40
2172	In house	0.0138		-0.33	2462		-----		-----
2175		0	R(0.01)	-6.25	2467		-----		-----
2182	CPSC-CH-C1001-09.3	0.0142		-0.16	2475	In house	0.0159		0.57
2184		-----		-----	2476	CPSC-CH-C1001-09.3	not det.		-----
2190	In house	0.022		3.19	2482	CPSC-CH-C1001-09.3	0.0137		-0.37
2201	CPSC-CH-C1001-09.3	0.0156		0.44	2486	In house	0.010782		-1.62
2202	In house	N.D.		-----	2488	In house	0.0125		-0.89
2213	ISO14389	<0.005	false -	<-4.10	2492	In house	0.0152		0.27
2216	CPSC-CH-C1001-09.4	< 0.01		-----	2495	CPSC-CH-C1001-09.3	0.0105		-1.74
2217		-----		-----	2497	CPSC-CH-C1001-09.3	0.00103	R(0.01)	-5.81
2218		-----		-----	2500	CPSC-CH-C1001-09.4	0.0181		1.52
2222	In house	ND		-----	2503		-----		-----
2223		-----		-----	2504	CPSC-CH-C1001-09.4	n.d.		-----
2230	CPSC-CH-C1001-09.4	0.014		-0.24	2507		-----		-----
2232	CPSC-CH-C1001-09.4	0.0190		1.90	2510		-----		-----
2236		0.0263158	R(0.01)	5.04	2511		-----		-----
2242		-----		-----	2514	ISO14389	0.0118		-1.19
2247	ISO14389	0.0130		-0.67	2522	CPSC-CH-C1001-09.3	<0.01		-----
2250	ISO14389	0.0140		-0.24	2529		-----		-----
2255	ISO14389	0.0112		-1.44	2538		-----		-----
2256		-----		-----	2549	ISO14389	0.0116	C	-1.27
2258	CPSC-CH-C1001-09.3	0.02823	R(0.01)	5.86	2553	In house	ND		-----
2265		-----		-----	2560	CPSC-CH-C1001-09.3	0.10993	R(0.01)	40.92
2266	CPSC-CH-C1001-09.3	0.0279	R(0.01)	5.72	2563	ISO14389	n.d.		-----
2267		-----		-----	2567	CPSC-CH-C1001-09.3	0.0125		-0.89
2272	ISO14389	0.0212		2.85	2569	CPSC-CH-C1001-09.3	0.011		-1.53
2284	CPSC-CH-C1001-09.3	0.0121		-1.06	2572	CPSC-CH-C1001-09.3	0.0131		-0.63
2288	CPSC-CH-C1001-09.3	<0.03		-----	2582		-----		-----
2289	ISO8124-6 Meth.C	0.015		0.19	2590		-----		-----
2290	CPSC-CH-C1001-09.3	0.0127		-0.80	2591	CPSC-CH-C1001-09.3	0.013		-0.67
2293	CPSC-CH-C1001-09.3	<0.009		-----	2629	CPSC-CH-C1001-09.4	0.0163		0.74
2295		-----		-----	2641	CPSC-CH-C1001-09.4	ND		-----
2301	CPSC-CH-C1001-09.3	ND		-----	2642	CPSC-CH-C1001-09.4	<0.03		-----
2310	CPSC-CH-C1001-09.3	0.0090		-2.39	2665	In house	<0,01		-----
2311	CPSC-CH-C1001-09.3	0.01043		-1.77	2668	CPSC-CH-C1001-09.3	0.0119		-1.14
2313	ISO14389	0.0086		-2.56	2672	In house	0.01590		0.57
2314		0.0097		-2.09	2674	CPSC-CH-C1001-09.4	n.d.		-----
2316	IEC62321-8	0.01050		-1.74	2678		-----		-----
2330	CPSC-CH-C1001-09.3/4	0.02054		2.56	2705		-----		-----
2347		0.0132		-0.59	2720	CPSC-CH-C1001-09.3	0.0133		-0.54
2350	CPSC-CH-C1001-09.3/4	0.0296	R(0.01)	6.45	2722	CPSC-CH-C1001-09.3	0.022		3.19
2352	CPSC-CH-C1001-09.4	0.0158		0.53	2728	EN71-5	< 0.015		-----
2353	IEC62321-8	0.01501		0.19	2730		-----		-----
2355	IEC62321-8	0.0129		-0.71	2734	CPSC-CH-C1001-09.3	nd		-----

lab	method	value	mark	z(targ)	lab	method	value	mark	z(targ)
2736		0.0189		1.86	3154		-----		-----
2737	ISO14389	0.01376		-0.35	3160	ISO/TS16181	0.019		1.90
2741	ISO14389	0.0140		-0.24	3163		-----		-----
2774	ISO14389	0.0167		0.92	3166	In house	<0.05		-----
2787		-----		-----	3172		-----		-----
2805	CPSC-CH-C1001-09.4	ND		-----	3176	CPSC-CH-C1001-09.3	0.0139		-0.29
2816		-----		-----	3182	CPSC-CH-C1001-09.3	0.0143		-0.11
2821	AfPS GS2014	<0,05		-----	3185	CPSC-CH-C1001-09.4	0.0173		1.17
2824		-----		-----	3191	CPSC-CH-C1001-09.4	0.0200		2.33
2826		-----		-----	3192	In house	<0,1		-----
2827	ISO14389	0.012		-1.10	3197	CPSC-CH-C1001-09.3	0.0107		-1.66
2829	CPSC-CH-C1001-09.4	0.038	R(0.01)	10.05	3209	CPSC-CH-C1001-09.4	0.0210		2.76
2835		-----		-----	3210	In house	0.02464	R(0.01)	4.32
2841		-----		-----	3213		-----		-----
2855		-----		-----	3214	CPSC-CH-C1001-09.4	0.0148		0.10
2858	ISO14389	0.010978		-1.54	3218	CPSC-CH-C1001-09.3	0.0129		-0.71
2863		-----		-----	3225	CPSC-CH-C1001-09.4	0.01297		-0.68
2864	CPSC-CH-C1001-09.3	0.0092		-2.30	3228		-----		-----
2867	CPSC-CH-C1001-09.3	0.0138		-0.33	3237		-----		-----
2879		-----		-----	3238		-----		-----
2884		-----		-----	3239		-----		-----
2888	In house	0.018153		1.54	3243	In house	n.d.		-----
2892	CPSC-CH-C1001-09.4	0.0162		0.70	3248		-----		-----
3100	ISO8124-6 Meth.C	0.0130		-0.67	3250		-----		-----
3116	In house	0.0155		0.40	8005	In house	0.0142		-0.16
3118	CPSC-CH-C1001-09.3	0.0315	R(0.01)	7.27	8006	In house	0.0131		-0.63
3122	CPSC-CH-C1001-09.3	0.014		-0.24	8007	CPSC-CH-C1001-09.3	0.0149		0.14
3146		-----		-----	8020		-----		-----
3150	CPSC-CH-C1001-09.4	0.011298		-1.40	8021		-----		-----
3153	CPSC-CH-C1001-09.4	0.0189		1.86					

normality	OK	
n	104	
outliers	14	
mean (n)	0.01457	
st.dev. (n)	0.003367	RSD = 23%
R(calc.)	0.00943	
st.dev.(iis memo 1701)	0.002331	
R(iismemo 1701)	0.00654	

Lab 2358: first reported 150.23162 %M/M
Lab 2426: reported 147.00 %M/M
Lab 2549: first reported 116 %M/M





Determination of DEP – Diethylphthalate on sample #19545; results in %M/M

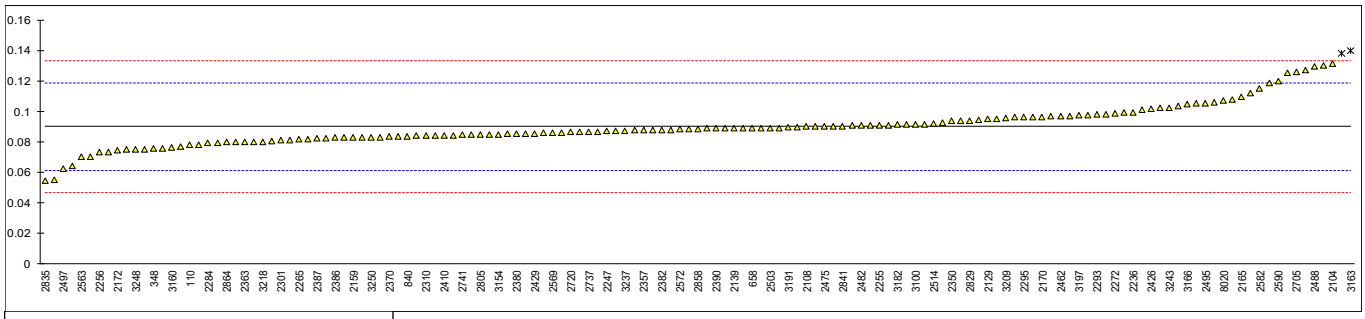
Lab	method	Value	mark	z(targ)	Lab	method	value	mark	z(targ)
110	In house	0.0779	C	-0.84	2357	CPSC-CH-C1001-09.3	0.0879		-0.14
210	ISO14389	0.09056		0.04	2358	CPSC-CH-C1001-09.3	N/A		-----
230	ISO14389	0.0968		0.47	2363	CPSC-CH-C1001-09.4	0.080		-0.69
330		-----		-----	2365	IEC62321-8	0.08349		-0.45
339	In house	0.0991		0.63	2366	CPSC-CH-C1001-09.4	0.089		-0.07
348		0.0754		-1.01	2369	CPSC-CH-C1001-09.3	0.083		-0.48
362		-----		-----	2370	CNC15138-1	0.0833		-0.46
523		-----		-----	2372	EN14372	0.0882		-0.12
551	In house	0.0751		-1.03	2374	In house	0.084		-0.42
623	CPSC-CH-C1001-09.3	0.064		-1.80	2375	CPSC-CH-C1001-09.3	0.095		0.35
632	CPSC-CH-C1001-09.3	NA		-----	2378	EN14372	0.0880		-0.14
658	CPSC-CH-C1001-09.3	0.089		-0.07	2379		NA		-----
826		-----		-----	2380	ISO14389	0.08521		-0.33
840	CPSC-CH-C1001-09.3	0.0836		-0.44	2381	CPSC-CH-C1001-09.3	0.0875		-0.17
1051		-----		-----	2382	ISO14389	0.0880		-0.14
1213		NA		-----	2384	IEC62321-8	0.0857	C	-0.30
2102		-----		-----	2386	ISO14389	0.0829		-0.49
2104	CPSC-CH-C1001-09.3	0.1312		2.86	2387	IEC62321-8	0.08245	C	-0.52
2108	ISO14389	0.09		0.00	2390	CPSC-CH-C1001-09.3	0.089		-0.07
2115	CPSC-CH-C1001-09.3	0.077		-0.90	2410	CPSC-CH-C1001-09.3	0.08428		-0.40
2121		-----		-----	2415	ISO14389	0.0865		-0.24
2129	ISO14389	0.0948		0.33	2425	In house	0.0890		-0.07
2132	CPSC-CH-C1001-09.4	0.1056		1.08	2426	CPSC-CH-C1001-09.4	0.101802	C	0.82
2137	IEC62321-8	0.091		0.07	2429	CPSC-CH-C1001-09.3	0.0856		-0.30
2138	IEC62321-8	0.096		0.42	2431		-----		-----
2139	KS M1991	0.089		-0.07	2438		-----		-----
2156	CPSC-CH-C1001-09.3	0.070458		-1.36	2442	CPSC-CH-C1001-09.3	0.08301		-0.48
2159	ISO14389	0.0830		-0.48	2453		-----		-----
2165	CPSC-CH-C1001-09.4	0.1093		1.34	2459	CPSC-CH-C1001-09.4	0.0820		-0.55
2170	CPSC-CH-C1001-09.3	0.09624		0.43	2460		-----		-----
2172	In house	0.0746		-1.07	2462	CPSC-CH-C1001-09.4	0.097		0.49
2175		0.055	C	-2.43	2467	CPSC-CH-C1001-09.3	0.0927		0.19
2182		-----		-----	2475	In house	0.0903		0.02
2184		-----		-----	2476		-----		-----
2190		-----		-----	2482	CPSC-CH-C1001-09.3	0.0906		0.04
2201	CPSC-CH-C1001-09.3	0.0826		-0.51	2486	In house	0.08545757		-0.31
2202		-----		-----	2488	In house	0.1297		2.76
2213	ISO14389	0.0976		0.53	2492	In house	0.0754		-1.01
2216		-----		-----	2495	CPSC-CH-C1001-09.3	0.10555		1.08
2217		0.078		-0.83	2497	CPSC-CH-C1001-09.3	0.0623		-1.92
2218		-----		-----	2500	CPSC-CH-C1001-09.4	0.0811		-0.62
2222	In house	< 0.1		-----	2503		0.089		-0.07
2223	In house	0.1023		0.86	2504	CPSC-CH-C1001-09.4	n.a.		-----
2230	CPSC-CH-C1001-09.4	0.088		-0.14	2507		-----		-----
2232		-----		-----	2510	In house	0.096		0.42
2236		0.0994152		0.66	2511		0.0970		0.49
2242		-----		-----	2514	ISO14389	0.0922		0.15
2247	ISO14389	0.0869		-0.21	2522		-----		-----
2250	ISO14389	0.0942		0.29	2529		-----		-----
2255	ISO14389	0.0910		0.07	2538		-----		-----
2256	ISO8124	0.073		-1.18	2549	ISO14389	0.0844	C	-0.39
2258	CPSC-CH-C1001-09.3	0.11836		1.97	2553	In house	0.0839	C	-0.42
2265	ISO14389	0.0817		-0.58	2560	CPSC-CH-C1001-09.3	0.09380		0.27
2266		-----		-----	2563	ISO14389	0.07		-1.39
2267	In house	0.125	C	2.43	2567	CPSC-CH-C1001-09.3	0.0915		0.11
2272	ISO14389	0.0985		0.59	2569	CPSC-CH-C1001-09.3	0.086		-0.28
2284	CPSC-CH-C1001-09.3	0.0796		-0.72	2572	CPSC-CH-C1001-09.3	0.0881		-0.13
2289		-----		-----	2590	CPSC-CH-C1001-09.3	0.11991		2.08
2290	CPSC-CH-C1001-09.3	0.0889		-0.08	2591	CPSC-CH-C1001-09.3	0.127		2.57
2293	CPSC-CH-C1001-09.3	0.098		0.56	2629	CPSC-CH-C1001-09.4	0.1078		1.24
2295	CPSC-CH-C1001-09.3	0.096		0.42	2641		-----		-----
2301	CPSC-CH-C1001-09.3	0.081		-0.62	2642		-----		-----
2310	CPSC-CH-C1001-09.3	0.084		-0.42	2665	In house	0.089		-0.07
2311	CPSC-CH-C1001-09.3	0.07994		-0.70	2668	CPSC-CH-C1001-09.3	0.0852		-0.33
2313	ISO14389	0.0847		-0.37	2672	In house	0.09033		0.02
2314		0.0796		-0.72	2674	CPSC-CH-C1001-09.4	n.a.		-----
2316	IEC62321-8	NA		-----	2678		-----		-----
2330	CPSC-CH-C1001-09.3/4	0.08604		-0.27	2705	In house	0.1260		2.50
2347		0.0909		0.06	2720	CPSC-CH-C1001-09.3	0.0864		-0.25
2350	CPSC-CH-C1001-09.3/4	0.0937		0.26	2722		-----		-----
2352	CPSC-CH-C1001-09.4	0.0868		-0.22	2728		-----		-----
2353		-----		-----	2730		-----		-----
2355	IEC62321-8	0.0890		-0.07	2734	CPSC-CH-C1001-09.3	0.1122		1.54

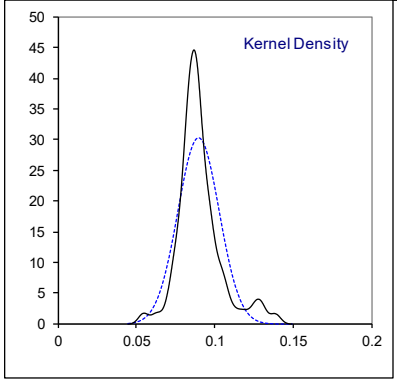
lab	method	value	mark	z(targ)	lab	method	value	mark	z(targ)
2736		-----		-----	3154	In house	0.085		-0.35
2737	ISO14389	0.08664		-0.23	3160	ISO/TS16181	0.076		-0.97
2741	ISO14389	0.0846		-0.37	3163		0.14	C,DG(0.01)	3.47
2774	ISO14389	0.0807		-0.64	3166	In house	0.1049		1.04
2787	CPSC-CH-C1001-09.2	0.13021		2.79	3172	CPSC-CH-C1001-09.3	0.098		0.56
2805	CPSC-CH-C1001-09.4	0.0847		-0.37	3176	CPSC-CH-C1001-09.3	0.0749		-1.05
2816		-----		-----	3182	CPSC-CH-C1001-09.3	0.0912		0.08
2821	AfPS GS2014	0.0914		0.10	3185		-----		-----
2824		-----		-----	3191	CPSC-CH-C1001-09.4	0.0896		-0.03
2826		-----		-----	3192		-----		-----
2827	ISO14389	0.083		-0.48	3197	CPSC-CH-C1001-09.3	0.0975		0.52
2829	CPSC-CH-C1001-09.4	0.094		0.28	3209	CPSC-CH-C1001-09.4	0.0955		0.38
2835		0.0545509		-2.46	3210	In house	0.07302		-1.18
2841	In house	0.09036		0.03	3213		-----		-----
2855		-----		-----	3214	CPSC-CH-C1001-09.4	0.0873		-0.19
2858	ISO14389	0.088467		-0.11	3218	CPSC-CH-C1001-09.3	0.0801		-0.69
2863		-----		-----	3225	CPSC-CH-C1001-09.4	NA		-----
2864	CPSC-CH-C1001-09.3	0.0797		-0.71	3228	CPSC-CH-C1001-09.4	0.1052		1.06
2867	CPSC-CH-C1001-09.3	0.1013		0.79	3237	CPSC-CH-C1001-09.3	0.0874		-0.18
2879		-----		-----	3238		-----		-----
2884		-----		-----	3239	In house	0.138	DG(0.01)	3.34
2888	In house	0.089623		-0.02	3243	In house	0.1025		0.87
2892	CPSC-CH-C1001-09.4	0.1036		0.95	3248	In house	0.075		-1.04
3100	ISO8124-6 Meth.C	0.0914		0.10	3250	CPSC-CH-C1001-09.3	0.083		-0.48
3116		-----		-----	8005		-----		-----
3118	CPSC-CH-C1001-09.3	0.0848		-0.36	8006		-----		-----
3122		-----		-----	8007		-----		-----
3146	In house	0.090		0.00	8020	CPSC-CH-C1001-09.4	0.1071		1.19
3150	CPSC-CH-C1001-09.4	0.08007		-0.69	8021		-----		-----
3153		-----		-----					

normality	not OK	
n	143	
outliers	2	
mean (n)	0.08998	
st.dev. (n)	0.013182	RSD = 15%
R(calc.)	0.03691	
st.dev.(iis memo 1701)	0.014397	
R(iis memo 1701)	0.04031	

Lab 110: first reported 0.0079
Lab 2175: first reported 0.04533
Lab 2267: first reported 0.038
Lab 2384: first reported 0.133
Lab 2387: first reported 0.09428

Lab 2426: reported 1018.02 %M/M
Lab 2549: first reported 844 %M/M
Lab 2553: first reported 839.5 %M/M
Lab 3163: first reported 1400 %M/M





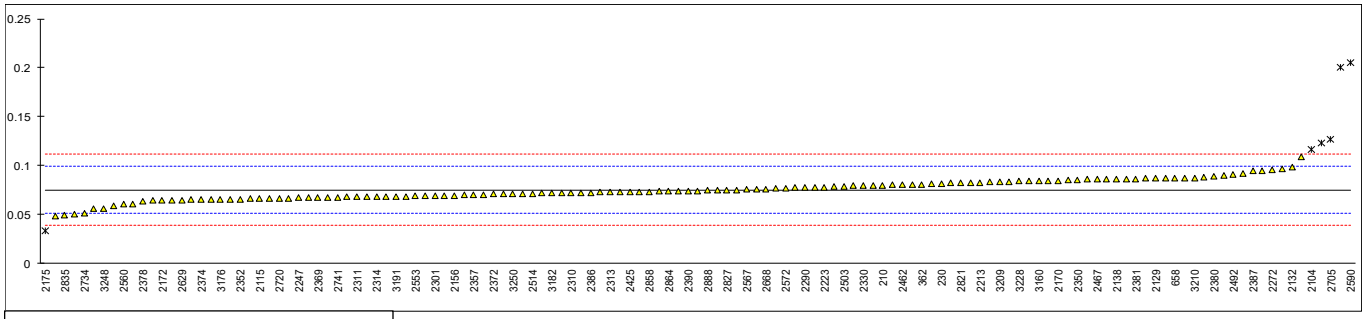
Determination of DMP – Dimethylphthalate on sample #19545; results in %M/M

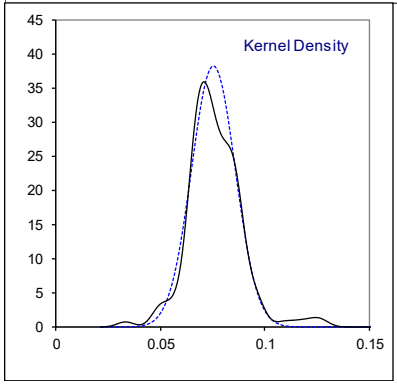
Lab	method	Value	mark	z(targ)	Lab	method	value	mark	z(targ)
110	In house	0.0862		0.92	2357	CPSC-CH-C1001-09.3	0.0702		-0.41
210	ISO14389	0.07996		0.40	2358	CPSC-CH-C1001-09.3	N/A		-----
230	ISO14389	0.0812		0.51	2363	CPSC-CH-C1001-09.4	0.065		-0.84
330		-----		-----	2365	IEC62321-8	0.06846		-0.55
339	In house	0.0797		0.38	2366	CPSC-CH-C1001-09.4	0.073		-0.18
348		0.0606		-1.21	2369	CPSC-CH-C1001-09.3	0.067		-0.68
362	In house	0.0805		0.45	2370	CNC15138-1	0.0690		-0.51
523		-----		-----	2372	EN14372	0.0706		-0.38
551		-----		-----	2374	In house	0.065		-0.84
623	CPSC-CH-C1001-09.3	0.056		-1.59	2375	CPSC-CH-C1001-09.3	0.080		0.41
632	CPSC-CH-C1001-09.3	NA		-----	2378	EN14372	0.0637		-0.95
658	CPSC-CH-C1001-09.3	0.087		0.99	2379		NA		-----
826		-----		-----	2380	ISO14389	0.08859		1.12
840	CPSC-CH-C1001-09.3	0.0711		-0.33	2381	CPSC-CH-C1001-09.3	0.0865		0.95
1051		-----		-----	2382	ISO14389	0.0660		-0.76
1213		NA		-----	2384	IEC62321-8	0.095		1.65
2102		-----		-----	2386	ISO14389	0.0723		-0.23
2104	CPSC-CH-C1001-09.3	0.1165	R(0.05)	3.44	2387	IEC62321-8	0.09428	C	1.59
2108	ISO14389	0.082		0.57	2390	CPSC-CH-C1001-09.3	0.074		-0.09
2115	CPSC-CH-C1001-09.3	0.066		-0.76	2410	CPSC-CH-C1001-09.3	0.07393		-0.10
2121		-----		-----	2415	ISO14389	0.0730		-0.18
2129	ISO14389	0.0868		0.97	2425	In house	0.0730		-0.18
2132	CPSC-CH-C1001-09.4	0.0980		1.90	2426	CPSC-CH-C1001-09.4	0.086967	C	0.99
2137	IEC62321-8	0.072		-0.26	2429	CPSC-CH-C1001-09.3	0.0660		-0.76
2138	IEC62321-8	0.086		0.91	2431		-----		-----
2139	KS M1991	0.086		0.91	2438		-----		-----
2156	CPSC-CH-C1001-09.3	0.069236		-0.49	2442		-----		-----
2159	ISO14389	0.0681		-0.58	2453		-----		-----
2165	CPSC-CH-C1001-09.4	0.0857		0.88	2459	CPSC-CH-C1001-09.4	0.0902		1.26
2170	CPSC-CH-C1001-09.3	0.08465		0.79	2460		-----		-----
2172	In house	0.0640		-0.92	2462	CPSC-CH-C1001-09.4	0.080		0.41
2175		0.033	C,R(0.05)	-3.50	2467	CPSC-CH-C1001-09.3	0.0857		0.88
2182		-----		-----	2475	In house	0.0764		0.11
2184		-----		-----	2476		-----		-----
2190		-----		-----	2482		-----		-----
2201	CPSC-CH-C1001-09.3	0.0715		-0.30	2486	In house	0.068386		-0.56
2202		-----		-----	2488	In house	0.0482	C	-2.24
2213	ISO14389	0.0823		0.60	2492	In house	0.0908		1.31
2216		-----		-----	2495	CPSC-CH-C1001-09.3	0.07915		0.34
2217		0.067		-0.68	2497		-----		-----
2218		-----		-----	2500	CPSC-CH-C1001-09.4	0.0692		-0.49
2222	In house	NA		-----	2503		0.079		0.32
2223	In house	0.07756		0.20	2504	CPSC-CH-C1001-09.4	n.a.		-----
2230	CPSC-CH-C1001-09.4	0.072		-0.26	2507		-----		-----
2232		-----		-----	2510	In house	0.085		0.82
2236		0.0918129		1.39	2511		0.0810		0.49
2242		-----		-----	2514	ISO14389	0.0713		-0.32
2247	ISO14389	0.0668		-0.69	2522		-----		-----
2250	ISO14389	0.0867		0.96	2529		-----		-----
2255	ISO14389	0.0705		-0.38	2538		-----		-----
2256	ISO8124	0.064		-0.92	2549	ISO14389	0.0734	C	-0.14
2258		-----		-----	2553	In house	0.0688	C	-0.53
2265		-----		-----	2560	CPSC-CH-C1001-09.3	0.06034		-1.23
2266		-----		-----	2563	ISO14389	0.05		-2.09
2267		-----		-----	2567	CPSC-CH-C1001-09.3	0.0761		0.08
2272	ISO14389	0.0955		1.70	2569	CPSC-CH-C1001-09.3	0.075		-0.01
2284	CPSC-CH-C1001-09.3	0.0641		-0.92	2572	CPSC-CH-C1001-09.3	0.0764		0.11
2288	CPSC-CH-C1001-09.3	Unmeasured		-----	2582		-----		-----
2289		-----		-----	2590	CPSC-CH-C1001-09.3	0.20509	C,R(0.01)	10.82
2290	CPSC-CH-C1001-09.3	0.0772		0.17	2591	CPSC-CH-C1001-09.3	0.109		2.82
2293	CPSC-CH-C1001-09.3	0.084		0.74	2629	CPSC-CH-C1001-09.4	0.064835		-0.86
2295	CPSC-CH-C1001-09.3	0.0871		1.00	2641		-----		-----
2301	CPSC-CH-C1001-09.3	0.069		-0.51	2642		-----		-----
2310	CPSC-CH-C1001-09.3	0.072		-0.26	2665	In house	0.067		-0.68
2311	CPSC-CH-C1001-09.3	0.06798		-0.59	2668	CPSC-CH-C1001-09.3	0.0762		0.09
2313	ISO14389	0.0729		-0.18	2672	In house	0.07719		0.17
2314		0.0683		-0.57	2674	CPSC-CH-C1001-09.4	n.a.		-----
2316	IEC62321-8	NA		-----	2678		-----		-----
2330	CPSC-CH-C1001-09.3/4	0.07957		0.37	2705	In house	0.1271	R(0.01)	4.33
2347		0.0728		-0.19	2720	CPSC-CH-C1001-09.3	0.0662		-0.74
2350	CPSC-CH-C1001-09.3/4	0.0852		0.84	2722		-----		-----
2352	CPSC-CH-C1001-09.4	0.0658		-0.77	2728		-----		-----
2353		-----		-----	2730		-----		-----
2355	IEC62321-8	0.0652		-0.82	2734	CPSC-CH-C1001-09.3	0.05131		-1.98

lab	method	Value	mark	z(targ)	lab	method	Value	mark	z(targ)
2736		-----		-----	3154	In house	0.07		-0.43
2737	ISO14389	0.06627		-0.74	3160	ISO/TS16181	0.084		0.74
2741	ISO14389	0.0674		-0.64	3163		0.2	C,R(0.01)	10.39
2774	ISO14389	0.0742		-0.08	3166	In house	0.0884		1.11
2787		-----	W	-----	3172	CPSC-CH-C1001-09.3	0.083		0.66
2805		-----		-----	3176	CPSC-CH-C1001-09.3	0.0652		-0.82
2816		-----		-----	3182	CPSC-CH-C1001-09.3	0.0717		-0.28
2821	AfPS GS2014	0.082		0.57	3185		-----		-----
2824		-----		-----	3191	CPSC-CH-C1001-09.4	0.0684		-0.56
2826		-----		-----	3192		-----		-----
2827	ISO14389	0.075		-0.01	3197	CPSC-CH-C1001-09.3	0.0773		0.18
2829	CPSC-CH-C1001-09.4	0.071		-0.34	3209	CPSC-CH-C1001-09.4	0.0832		0.67
2835		0.0496434		-2.12	3210	In house	0.08720		1.01
2841	In house	0.08357		0.70	3213		-----		-----
2855		-----		-----	3214	CPSC-CH-C1001-09.4	0.0750		-0.01
2858	ISO14389	0.073027		-0.17	3218	CPSC-CH-C1001-09.3	0.0653		-0.82
2863		-----		-----	3225	CPSC-CH-C1001-09.4	NA		-----
2864	CPSC-CH-C1001-09.3	0.0736		-0.13	3228	CPSC-CH-C1001-09.4	0.0838		0.72
2867	CPSC-CH-C1001-09.3	0.0784		0.27	3237		-----		-----
2879		-----		-----	3238		-----		-----
2884		-----		-----	3239	In house	0.123	C,R(0.01)	3.98
2888	In house	0.074848		-0.02	3243	In house	0.0965		1.78
2892	CPSC-CH-C1001-09.4	0.0820		0.57	3248	In house	0.056		-1.59
3100	ISO8124-6 Meth.C	0.0761		0.08	3250	CPSC-CH-C1001-09.3	0.071		-0.34
3116		-----		-----	8005		-----		-----
3118	CPSC-CH-C1001-09.3	0.0590		-1.34	8006		-----		-----
3122		-----		-----	8007		-----		-----
3146	In house	0.080		0.41	8020	CPSC-CH-C1001-09.4	0.0846		0.79
3150	CPSC-CH-C1001-09.4	0.06778		-0.61	8021		-----		-----
3153		-----		-----					

normality	OK	
n	129	
outliers	6	
mean (n)	0.07511	
st.dev. (n)	0.010447	RSD = 14%
R(calc.)	0.02925	
st.dev.(iis memo 1701)	0.012018	
R(iis memo 1701)	0.03365	

Lab 2175: first reported 0.03933
Lab 2387: first reported 0.13393
Lab 2426: reported 869.67 %M/M
Lab 2488: first reported 0.1263
Lab 2549: first reported 734 %M/M
Lab 2553: first reported 688.40 %M/M
Lab 2590: first reported 0.1138
Lab 2787: test result withdrawn, reported 0.12302
Lab 3163: first reported 2000 %M/M
Lab 3239: first reported 0.0134





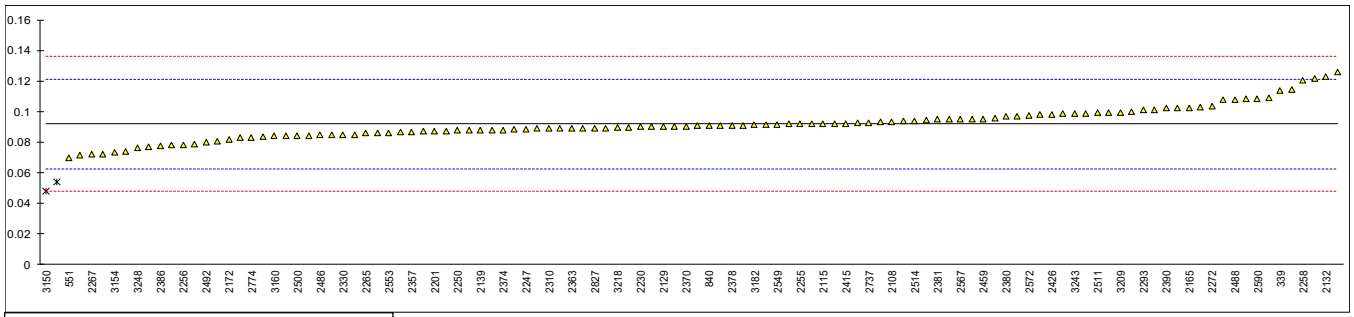
Determination of DPRP – Dipropylphthalate on sample #19545; results in %M/M

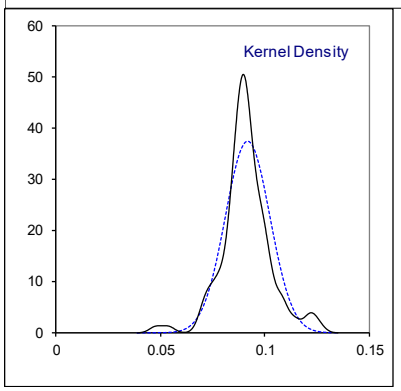
Lab	method	Value	mark	z(targ)	Lab	method	value	mark	z(targ)
110		-----		-----	2357	CPSC-CH-C1001-09.3	0.0867		-0.35
210	ISO14389	0.10116		0.63	2358	CPSC-CH-C1001-09.3	N/A		-----
230	ISO14389	0.1261		2.33	2363	CPSC-CH-C1001-09.4	0.089		-0.19
330		-----		-----	2365	IEC62321-8	0.09146		-0.03
339	In house	0.114		1.51	2366	CPSC-CH-C1001-09.4	0.091		-0.06
348		-----		-----	2369	CPSC-CH-C1001-09.3	0.089		-0.19
362		-----		-----	2370	CNC15138-1	0.0904		-0.10
523		-----		-----	2372	EN14372	0.0890		-0.19
551	In house	0.0694	C	-1.53	2374	In house	0.088		-0.26
623	CPSC-CH-C1001-09.3	0.074		-1.21	2375	CPSC-CH-C1001-09.3	0.092		0.01
632	CPSC-CH-C1001-09.3	NA		-----	2378	EN14372	0.0910		-0.06
658	CPSC-CH-C1001-09.3	NA		-----	2379		NA		-----
826		-----		-----	2380	ISO14389	0.09700		0.35
840	CPSC-CH-C1001-09.3	0.0907		-0.08	2381	CPSC-CH-C1001-09.3	0.0950		0.22
1051		-----		-----	2382	ISO14389	0.0860		-0.40
1213		NA		-----	2384	IEC62321-8	0.103		0.76
2102		-----		-----	2386	ISO14389	0.0774		-0.98
2104		-----		-----	2387		-----		-----
2108	ISO14389	0.093		0.08	2390	CPSC-CH-C1001-09.3	0.102		0.69
2115	CPSC-CH-C1001-09.3	0.092		0.01	2410	CPSC-CH-C1001-09.3	0.09913		0.50
2121		-----		-----	2415	ISO14389	0.0921		0.02
2129	ISO14389	0.0901		-0.12	2425	In house	0.0950		0.22
2132	CPSC-CH-C1001-09.4	0.1227		2.10	2426	CPSC-CH-C1001-09.4	0.097956	C	0.42
2137		-----		-----	2429	CPSC-CH-C1001-09.3	0.0918		0.00
2138	IEC62321-8	N.A.		-----	2431		-----		-----
2139	KS M1991	0.088		-0.26	2438		-----		-----
2156		-----		-----	2442	CPSC-CH-C1001-09.3	0.08810		-0.25
2159	ISO14389	0.0842		-0.52	2453		-----		-----
2165	CPSC-CH-C1001-09.4	0.1022		0.71	2459	CPSC-CH-C1001-09.4	0.0953		0.24
2170	CPSC-CH-C1001-09.3	0.10812		1.11	2460		-----		-----
2172	In house	0.0815		-0.70	2462		-----		-----
2175		-----	W	-----	2467		-----		-----
2182		-----		-----	2475	In house	0.1021		0.70
2184		-----		-----	2476		-----		-----
2190	In house	0.088		-0.26	2482		-----		-----
2201	CPSC-CH-C1001-09.3	0.0871		-0.32	2486	In house	0.084759		-0.48
2202		-----		-----	2488	In house	0.1077		1.08
2213	ISO14389	0.0541	C,R(0.05)	-2.57	2492	In house	0.0800		-0.81
2216		-----		-----	2495	CPSC-CH-C1001-09.3	<0.001	false -	<-6.18
2217		0.072		-1.35	2497	CPSC-CH-C1001-09.3	0.0716		-1.38
2218		-----		-----	2500	CPSC-CH-C1001-09.4	0.0842		-0.52
2222	In house	NA		-----	2503		-----		-----
2223		-----		-----	2504	CPSC-CH-C1001-09.4	n.a.		-----
2230	CPSC-CH-C1001-09.4	0.090		-0.13	2507		-----		-----
2232		-----		-----	2510	In house	0.100		0.56
2236		-----		-----	2511		0.0990		0.49
2242		-----		-----	2514	ISO14389	0.0939		0.14
2247	ISO14389	0.0885		-0.23	2522		-----		-----
2250	ISO14389	0.0877		-0.28	2529		-----		-----
2255	ISO14389	0.0920		0.01	2538		-----		-----
2256	ISO8124	0.078		-0.94	2549	ISO14389	0.0915	C	-0.02
2258	CPSC-CH-C1001-09.3	0.12053		1.95	2553	In house	0.0861	C	-0.39
2265	ISO14389	0.0860		-0.40	2560	CPSC-CH-C1001-09.3	0.08066		-0.76
2266		-----		-----	2563		-----		-----
2267	In house	0.072	C	-1.35	2567	CPSC-CH-C1001-09.3	0.0952		0.23
2272	ISO14389	0.1034		0.79	2569	CPSC-CH-C1001-09.3	NP		-----
2284	CPSC-CH-C1001-09.3	0.0767		-1.03	2572	CPSC-CH-C1001-09.3	0.0973		0.37
2288	CPSC-CH-C1001-09.3	Unmeasured		-----	2582	ISO14389	0.09299	C	0.08
2289		-----		-----	2590	CPSC-CH-C1001-09.3	0.10813		1.11
2290	CPSC-CH-C1001-09.3	0.0985		0.45	2591		-----		-----
2293	CPSC-CH-C1001-09.3	0.101		0.62	2629		-----	W	-----
2295	CPSC-CH-C1001-09.3	0.0896		-0.15	2641		-----		-----
2301	CPSC-CH-C1001-09.3	0.088		-0.26	2642		-----		-----
2310	CPSC-CH-C1001-09.3	0.089		-0.19	2665		-----		-----
2311	CPSC-CH-C1001-09.3	0.09007		-0.12	2668	CPSC-CH-C1001-09.3	0.0903		-0.10
2313	ISO14389	0.0787		-0.89	2672	In house	0.08697		-0.33
2314		0.0779		-0.95	2674	CPSC-CH-C1001-09.4	n.a.		-----
2316	IEC62321-8	NA		-----	2678		-----		-----
2330	CPSC-CH-C1001-09.3/4	0.08500		-0.47	2705		-----		-----
2347		0.0921		0.02	2720	CPSC-CH-C1001-09.3	0.0924		0.04
2350	CPSC-CH-C1001-09.3/4	0.1075		1.07	2722		-----		-----
2352	CPSC-CH-C1001-09.4	0.0891		-0.19	2728		-----		-----
2353		-----		-----	2730		-----		-----
2355	IEC62321-8	0.0872		-0.32	2734	CPSC-CH-C1001-09.3	nd		-----

Lab	method	value	mark	z(targ)	lab	method	value	mark	z(targ)
2736		-----		-----	3154	In house	0.073		-1.28
2737	ISO14389	0.09263		0.05	3160	ISO/TS16181	0.084		-0.53
2741	ISO14389	0.0838		-0.55	3163		-----		-----
2774	ISO14389	0.0830		-0.60	3166		-----		-----
2787		-----		-----	3172	CPSC-CH-C1001-09.3	0.0938		0.13
2805		-----		-----	3176	CPSC-CH-C1001-09.3	0.0843		-0.51
2816		-----		-----	3182	CPSC-CH-C1001-09.3	0.0912		-0.04
2821	AfPS GS2014	0.097		0.35	3185		-----		-----
2824		-----		-----	3191	CPSC-CH-C1001-09.4	0.0908		-0.07
2826		-----		-----	3192		-----		-----
2827	ISO14389	0.089		-0.19	3197	CPSC-CH-C1001-09.3	0.0987		0.47
2829		-----		-----	3209	CPSC-CH-C1001-09.4	0.0992		0.50
2835		-----		-----	3210		-----		-----
2841	In house	0.09051		-0.09	3213		-----		-----
2855	IEC62321-8	0.0958		0.27	3214	CPSC-CH-C1001-09.4	0.0889		-0.20
2858	ISO14389	0.097751		0.40	3218	CPSC-CH-C1001-09.3	0.0894		-0.17
2863		-----		-----	3225	CPSC-CH-C1001-09.4	NA		-----
2864		-----		-----	3228	CPSC-CH-C1001-09.4	0.1087		1.15
2867	CPSC-CH-C1001-09.3	0.1219		2.05	3237	CPSC-CH-C1001-09.3	0.0828		-0.62
2879		-----		-----	3238		-----		-----
2884		-----		-----	3239		-----		-----
2888	In house	0.086287		-0.38	3243	In house	0.0985	C	0.45
2892	CPSC-CH-C1001-09.4	0.0946		0.19	3248	In house	0.076		-1.08
3100	ISO8124-6 Meth.C	0.0952		0.23	3250	CPSC-CH-C1001-09.3	0.085		-0.47
3116		-----		-----	8005		-----		-----
3118	CPSC-CH-C1001-09.3	0.0848		-0.48	8006		-----		-----
3122		-----		-----	8007		-----		-----
3146		-----		-----	8020	CPSC-CH-C1001-09.4	0.1146		1.55
3150	CPSC-CH-C1001-09.4	0.047937	C,R(0.05)	-2.99	8021		-----		-----
3153		-----		-----					

normality	suspect	
n	112	
outliers	2	
mean (n)	0.09184	
st.dev. (n)	0.010648	RSD = 12%
R(calc.)	0.02981	
st.dev.(iis memo 1701)	0.014694	
R(iis memo 1701)	0.04114	

Lab 551: first reported 0.1575
Lab 2175: test result withdrawn, reported 0
Lab 2213: first reported <0.005
Lab 2267: first reported 0.039
Lab 2426: reported 979.56 %M/M
Lab 2549: first reported 915 %M/M
Lab 2553: first reported 861.61 %M/M
Lab 2582: first reported 0.14088
Lab 2629: test result withdrawn, reported ND
Lab 3150: first reported <0.005
Lab 3243: first reported nd.





Determination of DEHP – Bis-2-ethylhexylphthalate on sample #19546; results in %M/M

Lab	method	Value	mark	z(targ)	Lab	method	value	mark	z(targ)
110	In house	0.2902		-0.49	2357	CPSC-CH-C1001-09.3	0.3364		0.43
210	ISO14389	0.32132		0.13	2358	CPSC-CH-C1001-09.3	0.3463107	C	0.62
230	ISO14389	0.3280		0.26	2363	CPSC-CH-C1001-09.4	0.349		0.68
330	In house	0.308		-0.14	2365	IEC62321-8	0.32867		0.27
339	In house	0.5082	R(0.05)	3.84	2366	CPSC-CH-C1001-09.4	0.340		0.50
348		0.3384		0.47	2369	CPSC-CH-C1001-09.3	0.336		0.42
362	In house	0.197		-2.34	2370	CNS15138-1	0.318		0.06
523	CPSC-CH-C1001-09.4	0.33179		0.33	2372	EN14372	0.314		-0.02
551	In house	0.2636		-1.02	2374	In house	0.329		0.28
623	CPSC-CH-C1001-09.3	0.319		0.08	2375	CPSC-CH-C1001-09.3	0.353		0.76
632	CPSC-CH-C1001-09.3	0.304926		-0.20	2378	EN14372	0.3380		0.46
658	CPSC-CH-C1001-09.3	0.115	C,R(0.05)	-3.97	2379		0.185	C	-2.58
826	IEC62321-8	0.358		0.86	2380	ISO14389	0.32208		0.14
840	CPSC-CH-C1001-09.3	0.2925		-0.44	2381	CPSC-CH-C1001-09.3	0.3068		-0.16
1051	GB/T22048	0.3644		0.98	2382	ISO14389	0.3370		0.44
1213	CPSC_CH-C1001-09.4	0.336		0.42	2384		0.394	C	1.57
2102	In house	0.32124		0.13	2386	ISO14389	0.2233		-1.82
2104	CPSC-CH-C1001-09.3	0.4970	R(0.05)	3.61	2387	IEC62321-8	0.3943	C	1.58
2108	ISO14389	0.314		-0.02	2390	CPSC-CH-C1001-09.3	0.252	C	-1.25
2115	CPSC-CH-C1001-09.3	0.327		0.24	2410	CPSC-CH-C1001-09.3	0.33675		0.43
2121	ISO14389	0.30		-0.30	2415	ISO14389	0.301		-0.28
2129	ISO14389	0.3638		0.97	2425	In house	0.3180		0.06
2132	CPSC-CH-C1001-09.4	0.3397		0.49	2426	CPSC-CH-C1001-09.4	0.359655	C	0.89
2137	IEC62321-8	0.321		0.12	2429	CPSC-CH-C1001-09.3	0.3456		0.61
2138	IEC62321-8	0.385		1.39	2431	CPSC-CH-C1001-09.3	0.34		0.50
2139	KS M1991	0.276		-0.77	2438		-----		-----
2156	CPSC-CH-C1001-09.3	0.32397		0.18	2442	CPSC-CH-C1001-09.3	0.35418		0.78
2159	ISO14389	0.3099		-0.10	2453	CPSC-CH-C1001-09.3	0.269		-0.91
2165	CPSC-CH-C1001-094	0.3553		0.80	2459	CPSC-CH-C1001-09.4	0.3282		0.26
2170	CPSC-CH-C1001-09.3	0.29167		-0.46	2460	CPSC-CH-C1001-09.3	0.3728		1.15
2172	In house	0.3210		0.12	2462	IEC62321-8/GB/T22048	0.366		1.01
2175		0.1577	C	-3.12	2467	CPSC-CH-C1001-09.3	0.3315		0.33
2182		0.3231		0.16	2475	In house	0.3666		1.03
2184	ISO8214-6	0.3762		1.22	2476	CPSC-CH-C1001-09.3	0.3350		0.40
2190		0.286		-0.57	2482	CPSC-CH-C1001-09.3	0.304		-0.22
2201	CPSC-CH-C1001-09.3	0.3569		0.83	2486	In house	0.3037975		-0.22
2202	In house	0.3092		-0.11	2488	In house	0.2991		-0.31
2213	ISO14389	0.3341		0.38	2492	In house	0.2160		-1.96
2216	CPSC-CH-C1001-09.4	0.3244	C	0.19	2495	CPSC-CH-C1001-09.3	0.31609		0.02
2217		0.23		-1.69	2497	CPSC-CH-C1001-09.3	0.2844		-0.61
2218	CPSC-CH-C1001-09.3	0.33663		0.43	2500	CPSC-CH-C1001-09.4	0.3111		-0.08
2222	In house	0.18		-2.68	2503		0.326		0.22
2223	In house	0.3151		0.00	2504	CPSC-CH-C1001-09.4	0.305		-0.20
2230	CPSC-CH-C1001-09.4	0.33		0.30	2507	CPSC-CH-C1001-09.3	0.394		1.57
2232	CPSC-CH-C1001-09.4	0.3156		0.01	2510	In house	0.340		0.50
2236		0.3082192		-0.13	2511		0.304		-0.22
2242		0.2827		-0.64	2514	ISO14389	0.3209		0.12
2247	ISO14389	0.4226		2.14	2522	CPSC-CH-C1001-09.3	0.314		-0.02
2250	ISO14389	0.3066		-0.17	2529	CPSC-CH-C1001-09.4	0.32795		0.26
2255	ISO14389	0.3225		0.15	2538		-----		-----
2256		0.340		0.50	2549	ISO14389	0.3054	C	-0.19
2258	CPSC-CH-C1001-09.3	0.45269		2.73	2553	In house	0.2612	C	-1.07
2265	ISO14389	0.2906		-0.48	2560		0.30101		-0.28
2266	CPSC-CH-C1001-09.3	0.21	C	-2.08	2563	ISO14389	0.203		-2.22
2267		0.255	C	-1.19	2567	CPSC-CH-C1001-09.3	0.3153		0.01
2272	ISO14389	0.3210		0.12	2569	CPSC-CH-C1001-09.3	0.33		0.30
2284	CPSC-CH-C1001-09.3	0.3370		0.44	2572	CPSC-CH-C1001-09.3	0.3251		0.20
2288	CPSC-CH-C1001-09.3	0.33281		0.36	2582	ISO14389	0.21805		-1.92
2289	ISO8124-6 Meth.C	0.322		0.14	2590	CPSC-CH-C1001-09.3	0.28164		-0.66
2290	CPSC-CH-C1001-09.3	0.3270		0.24	2591	CPSC-CH-C1001-09.3	0.406		1.81
2293	CPSC-CH-C1001-09.3	0.293		-0.43	2629	CPSC-CH-C1001-09.4	0.4137		1.96
2295	CPSC-CH-C1001-09.3	0.3023		-0.25	2641	CPSC-CH-C1001-09.4	0.2957		-0.38
2301	CPSC-CH-C1001-09.3	0.281		-0.67	2642	CPSC-CH-C1001-09.4	0.3094		-0.11
2310	CPSC-CH-C1001-09.3	0.30		-0.30	2665	In house	0.246		-1.37
2311	CPSC-CH-C1001-09.3	0.30029		-0.29	2668	CPSC-CH-C1001-09.3	0.3196		0.09
2313	ISO14389	0.3141		-0.02	2672	In house	0.33395		0.38
2314		0.3015		-0.27	2674	CPSC-CH-C1001-09.4	0.3832		1.36
2316	IEC62321-8	0.2977	C	-0.34	2678		-----		-----
2330	CPSC-CH-C1001-09.3/4	0.44699		2.62	2705	In house	0.1061	R(0.05)	-4.14
2347		0.3351		0.40	2720	CPSC-CH-C1001-09.3	0.3540		0.78
2350	CPSC-CH-C1001-09.3	0.3583		0.86	2722	CPSC-CH-C1001-09.3	0.357		0.84
2352	CPSC-CH-C1001-09.4	0.3405		0.51	2728	EN71-5	0.18310		-2.62
2353	IEC62321-8	0.35362		0.77	2730		0.295		-0.40
2355	IEC62321-8	0.3344		0.39	2734	CPSC-CH-C1001-09.3	0.23942		-1.50

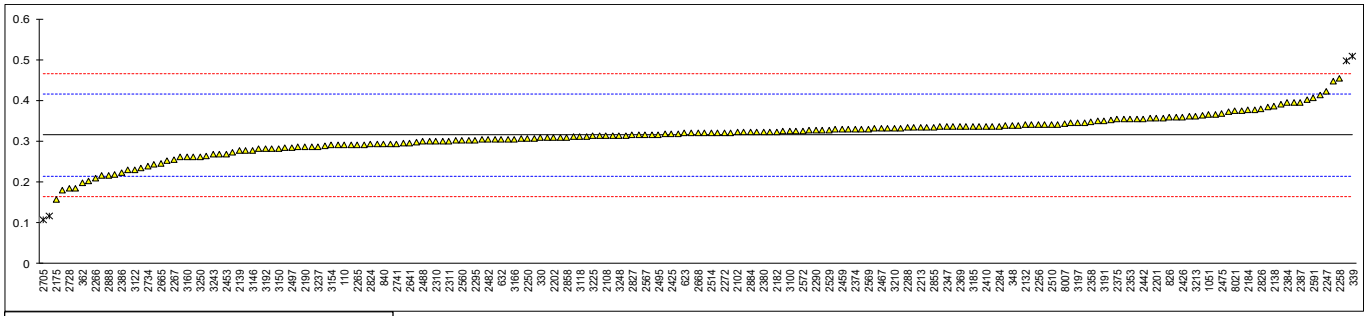
lab	method	value	mark	z(targ)	lab	method	value	mark	z(targ)
2736		0.3390		0.48	3154	In house	0.29	C	-0.49
2737	ISO14389	0.23464		-1.59	3160	ISO/TS16181	0.261		-1.07
2741	ISO14389	0.2931		-0.43	3163		0.29	C	-0.49
2774	ISO14389	0.2719		-0.85	3166	In house	0.3052		-0.19
2787	CPSC-CH-C1001-09.2	0.28664		-0.56	3172	CPSC-CH-C1001-09.3	0.2880		-0.53
2805	CPSC-CH-C1001-09.4	0.2903		-0.49	3176	CPSC-CH-C1001-09.3	0.2427		-1.43
2816		-----		-----	3182	CPSC-CH-C1001-09.3	0.2682		-0.93
2821	AfPS GS2014	0.276		-0.77	3185	CPSC-CH-C1001-09.4	0.3366		0.43
2824	CPSC-CH-C1001-09.3	0.2920		-0.45	3191	ISO8124-6	0.3494		0.68
2826	CPSC-CH-C1001-09.3	0.38		1.29	3192	In house	0.281		-0.67
2827	ISO14389	0.315		0.00	3197	CPSC-CH-C1001-09.3	0.3451		0.60
2829	CPSC-CH-C1001-09.4	0.260		-1.09	3209	CPSC-CH-C1001-09.4	0.353		0.76
2835		0.2856932		-0.58	3210	In house	0.3319		0.34
2841	In house	0.29932		-0.31	3213	IEC62321-8	0.3613		0.92
2855	IEC62321-8Mod.	0.3345		0.39	3214	CPSC-CH-C1001-09.4	0.3307		0.31
2858	ISO14389	0.309671		-0.10	3218	CPSC-CH-C1001-09.3	0.3511		0.72
2863		-----		-----	3225	CPSC-CH-C1001-09.4	0.31244		-0.05
2864		0.3447		0.59	3228		0.3602		0.90
2867	CPSC-CH-C1001-09.3	0.3896		1.48	3237	CPSC-CH-C1001-09.3	0.2868		-0.56
2879	CPSC-CH-C1001-09.3	0.3200		0.10	3238		-----		-----
2884	IEC62321-8	0.32198		0.14	3239	In house	0.401		1.71
2888	In house	0.21632		-1.96	3243	In house	0.268	C	-0.93
2892	CPSC-CH-C1001-09.4	0.2920		-0.45	3248	In house	0.314		-0.02
3100	ISO8124-6 Meth.C	0.3241		0.18	3250	CPSC-CH-C1001-09.3	0.262		-1.05
3116	In house	0.3325		0.35	8005	In house	0.3739		1.17
3118	CPSC-CH-C1001-09.3	0.3104		-0.09	8006	In house	0.3195		0.09
3122	CPSC-CH-C1001-09.3	0.23		-1.69	8007	CPSC-CH-C1001-09.3	0.3420		0.54
3146	In house	0.277		-0.75	8020	CPSC-CH-C1001-09.4	0.3769		1.23
3150	CPSC-CH-C1001-09.4	0.28259		-0.64	8021	Japan ST2016	0.3735		1.16
3153		0.3170		0.04					

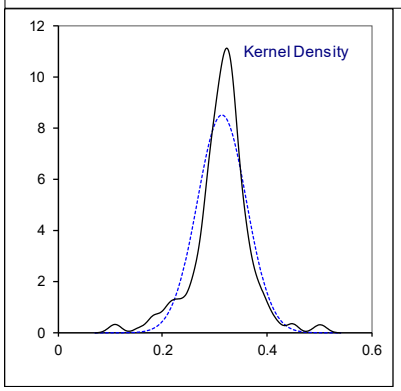
normality	suspect	
n	197	
outliers	4	
mean (n)	0.31492	
st.dev. (n)	0.046836	RSD = 15%
R(calc.)	0.13114	
st.dev.(iis memo 1701)	0.050387	
R(iis memo 1701)	0.14108	

Lab 658: first reported 0.139
Lab 2175: first reported 0.0945
Lab 2216: first reported <0.01
Lab 2266: first reported 2.4826
Lab 2267: first reported 0.087
Lab 2316: first reported 0.0833

Lab 2358: first reported 3463.106 %M/M
Lab 2379: first reported 0.139
Lab 2384: first reported 0.525
Lab 2387: first reported 0.5033
Lab 2390: first reported 0.454
Lab 2426: reported 3596.55 %M/M

Lab 2549: first reported 3054 %M/M
Lab 2553: first reported 2612.00 %M/M
Lab 3154: first reported 0.585
Lab 3163: first reported 2900 %M/M
Lab 3243: first reported nd





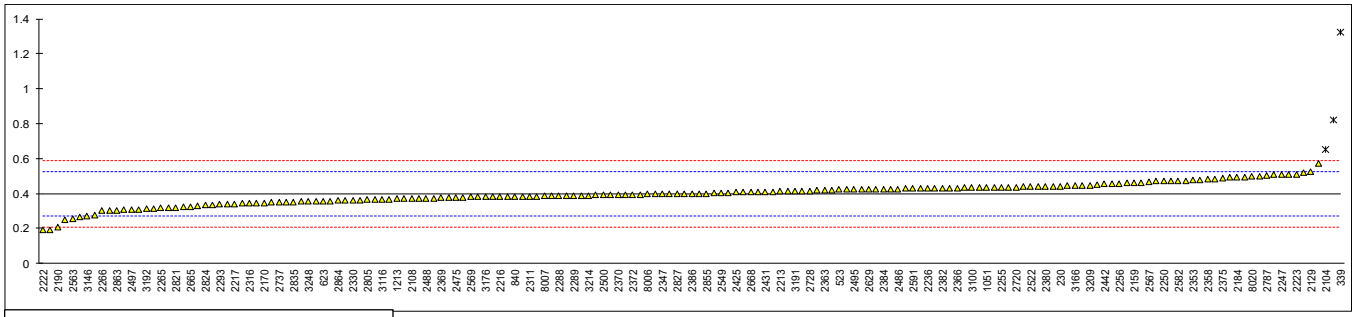
Determination of DIDP – Diisodecylphthalate on sample #19546; results in %M/M

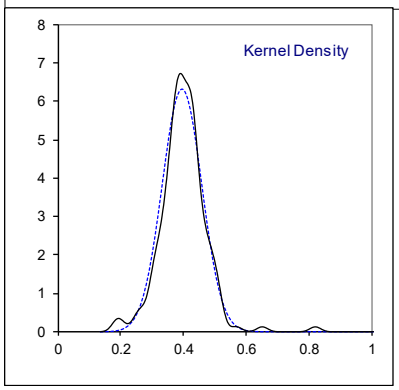
Lab	method	Value	mark	z(targ)	Lab	method	value	mark	z(targ)
110	In house	0.4465		0.77	2357	CPSC-CH-C1001-09.3	0.4592		0.97
210	ISO14389	0.47322		1.19	2358	CPSC-CH-C1001-09.3	0.4824682	C	1.33
230	ISO14389	0.4424		0.70	2363	CPSC-CH-C1001-09.4	0.420		0.35
330	In house	0.25		-2.32	2365	IEC62321-8	0.39599		-0.03
339	In house	1.324	R(0.01)	14.56	2366	CPSC-CH-C1001-09.4	0.431		0.52
348		0.3970		-0.01	2369	CPSC-CH-C1001-09.3	0.374		-0.37
362		-----		-----	2370	CNS15138-1	0.393		-0.07
523	CPSC-CH-C1001-09.4	0.42198		0.38	2372	EN14372	0.395		-0.04
551	In house	0.3619		-0.56	2374	In house	0.420		0.35
623	CPSC-CH-C1001-09.3	0.357		-0.64	2375	CPSC-CH-C1001-09.3	0.485		1.37
632	CPSC-CH-C1001-09.3	<0.005	false -	<-6.17	2378	EN14372	0.4100		0.19
658	CPSC-CH-C1001-09.3	0.414	C	0.26	2379		0.190	C	-3.26
826		-----		-----	2380	ISO14389	0.44165		0.69
840	CPSC-CH-C1001-09.3	0.3837		-0.22	2381	CPSC-CH-C1001-09.3	0.4550		0.90
1051	GB/T22048	0.4346		0.58	2382	ISO14389	0.4300		0.51
1213	CPSC_CH-C1001-09.4	0.370		-0.44	2384		0.424		0.41
2102	In house	0.31225		-1.34	2386	ISO14389	0.3983		0.01
2104	CPSC-CH-C1001-09.3	0.6538	R(0.05)	4.02	2387		-----		-----
2108	ISO14389	0.371		-0.42	2390	CPSC-CH-C1001-09.3	0.325	C	-1.14
2115		-----		-----	2410	CPSC-CH-C1001-09.3	0.42594		0.44
2121		-----		-----	2415	ISO14389	0.3981		0.01
2129	ISO14389	0.5222		1.96	2425	In house	0.4066		0.14
2132	CPSC-CH-C1001-09.4	0.4422		0.70	2426	CPSC-CH-C1001-09.4	0.518431	C	1.90
2137		-----		-----	2429	CPSC-CH-C1001-09.3	0.4281		0.48
2138	IEC62321-8	0.430		0.51	2431	CPSC-CH-C1001-09.3	0.41		0.19
2139	KS M1991	0.363		-0.55	2438		-----		-----
2156	CPSC-CH-C1001-09.3	0.30562		-1.45	2442	CPSC-CH-C1001-09.3	0.45492		0.90
2159	ISO14389	0.4595		0.97	2453		-----		-----
2165	CPSC-CH-C1001-094	0.4692		1.12	2459	CPSC-CH-C1001-09.4	0.3840		-0.22
2170	CPSC-CH-C1001-09.3	0.34524		-0.82	2460		-----		-----
2172	In house	0.3807		-0.27	2462	IEC62321-8/ GB/T22048	0.491		1.47
2175		-----	W	-----	2467	CPSC-CH-C1001-09.3	0.3438		-0.85
2182		0.4113		0.21	2475	In house	0.3765		-0.33
2184	ISO8214-6	0.4933		1.50	2476	CPSC-CH-C1001-09.3	0.4952		1.53
2190		0.208		-2.98	2482	CPSC-CH-C1001-09.3	0.377		-0.33
2201	CPSC-CH-C1001-09.3	0.4509		0.84	2486	In house	0.4260160		0.45
2202	In house	0.4239		0.41	2488	In house	0.3722		-0.40
2213	ISO14389	0.4112		0.21	2492	In house	0.4226		0.39
2216	CPSC-CH-C1001-09.4	0.38161		-0.25	2495	CPSC-CH-C1001-09.3	0.42334		0.40
2217		0.34		-0.91	2497	CPSC-CH-C1001-09.3	0.3057		-1.45
2218		-----		-----	2500	CPSC-CH-C1001-09.4	0.3911		-0.10
2222	In house	0.19		-3.26	2503		0.394		-0.06
2223	In house	0.5106		1.77	2504	CPSC-CH-C1001-09.4	0.373		-0.39
2230	CPSC-CH-C1001-09.4	0.47		1.14	2507	CPSC-CH-C1001-09.3	0.358		-0.62
2232		-----		-----	2510	In house	0.435		0.59
2236		0.4285719		0.49	2511		0.390		-0.12
2242		0.4067	C	0.14	2514	ISO14389	0.4331		0.56
2247	ISO14389	0.5098		1.76	2522	CPSC-CH-C1001-09.3	0.438		0.63
2250	ISO14389	0.470		1.14	2529		-----		-----
2255	ISO14389	0.4355		0.59	2538		-----		-----
2256		0.455		0.90	2549	ISO14389	0.4020	C	0.07
2258	CPSC-CH-C1001-09.3	0.57117		2.73	2553	In house	0.3818	C	-0.25
2265	ISO14389	0.3167		-1.27	2560		0.44378	C	0.72
2266	CPSC-CH-C1001-09.3	0.3002		-1.53	2563	ISO14389	0.253		-2.27
2267		0.302	C	-1.50	2567	CPSC-CH-C1001-09.3	0.4658		1.07
2272	ISO14389	0.3549		-0.67	2569	CPSC-CH-C1001-09.3	0.38		-0.28
2284	CPSC-CH-C1001-09.3	0.4089		0.18	2572	CPSC-CH-C1001-09.3	0.4362		0.61
2288	CPSC-CH-C1001-09.3	0.38543		-0.19	2582	ISO14389	0.47284		1.18
2289	ISO8124-6 Meth.C	0.387		-0.17	2590		-----		-----
2290	CPSC-CH-C1001-09.3	0.4378		0.63	2591	CPSC-CH-C1001-09.3	0.428		0.48
2293	CPSC-CH-C1001-09.3	0.337		-0.95	2629	CPSC-CH-C1001-09.4	0.423855		0.41
2295	CPSC-CH-C1001-09.3	0.3715		-0.41	2641		-----		-----
2301	CPSC-CH-C1001-09.3	0.337		-0.95	2642		-----		-----
2310	CPSC-CH-C1001-09.3	0.402		0.07	2665	In house	0.326		-1.13
2311	CPSC-CH-C1001-09.3	0.38402		-0.21	2668	CPSC-CH-C1001-09.3	0.4084		0.17
2313	ISO14389	0.3517		-0.72	2672	In house	0.4269		0.46
2314		0.4022		0.07	2674	CPSC-CH-C1001-09.4	n.a.		-----
2316	IEC62321-8	0.3434		-0.85	2678		-----		-----
2330	CPSC-CH-C1001-09.3/4	0.36231		-0.56	2705		-----		-----
2347		0.3970		-0.01	2720	CPSC-CH-C1001-09.3	0.4362		0.61
2350	CPSC-CH-C1001-09.3	0.5062		1.71	2722		-----		-----
2352	CPSC-CH-C1001-09.4	0.4297		0.50	2728	EN71-5	0.4147	C	0.27
2353	IEC62321-8	0.47660		1.24	2730		0.42		0.35
2355	IEC62321-8	0.4381		0.64	2734	CPSC-CH-C1001-09.3	nd		-----

lab	method	value	mark	z(targ)	lab	method	value	mark	z(targ)
2736		-----		-----	3154	In house	0.823	C,R(0.01)	6.68
2737	ISO14389	0.34967		-0.75	3160	ISO/TS16181	0.308		-1.41
2741	ISO14389	0.3559		-0.66	3163		0.38	C	-0.28
2774	ISO14389	0.3299		-1.07	3166	In house	0.4457		0.75
2787	CPSC-CH-C1001-09.2	0.50484		1.68	3172	CPSC-CH-C1001-09.3	0.3847		-0.20
2805	CPSC-CH-C1001-09.4	0.3641		-0.53	3176	CPSC-CH-C1001-09.3	0.3802		-0.27
2816		-----		-----	3182	CPSC-CH-C1001-09.3	0.3345		-0.99
2821	AfPS GS2014	0.319		-1.24	3185	CPSC-CH-C1001-09.4	0.4235		0.41
2824	CPSC-CH-C1001-09.3	0.3330		-1.02	3191	ISO8124-6	0.4133		0.25
2826	CPSC-CH-C1001-09.3	0.51		1.77	3192	In house	0.312		-1.35
2827	ISO14389	0.397		-0.01	3197	CPSC-CH-C1001-09.3	0.4830		1.34
2829	CPSC-CH-C1001-09.4	0.318		-1.25	3209	CPSC-CH-C1001-09.4	0.447		0.77
2835		0.3518532	C	-0.72	3210	In house	0.3681		-0.47
2841		-----		-----	3213		-----		-----
2855	IEC62321-8Mod.	0.4001		0.04	3214	CPSC-CH-C1001-09.4	0.3885		-0.14
2858	ISO14389	0.347953		-0.78	3218	CPSC-CH-C1001-09.3	0.4325		0.55
2863		0.302		-1.50	3225	CPSC-CH-C1001-09.4	NA		-----
2864		0.3594		-0.60	3228		0.4786		1.27
2867	CPSC-CH-C1001-09.3	0.4622		1.01	3237	CPSC-CH-C1001-09.3	0.3658		-0.50
2879	CPSC-CH-C1001-09.3	0.3758		-0.34	3238		-----		-----
2884		-----		-----	3239	In house	0.388		-0.15
2888	In house	0.264600		-2.09	3243	In house	0.370		-0.44
2892	CPSC-CH-C1001-09.4	0.4000		0.04	3248	In house	0.355		-0.67
3100	ISO8124-6 Meth.C	0.4328		0.55	3250	CPSC-CH-C1001-09.3	0.395		-0.04
3116	In house	0.3659		-0.50	8005	In house	0.3917		-0.09
3118	CPSC-CH-C1001-09.3	0.3424		-0.87	8006	In house	0.3958		-0.03
3122	CPSC-CH-C1001-09.3	0.276		-1.91	8007	CPSC-CH-C1001-09.3	0.3845		-0.21
3146	In house	0.273		-1.96	8020	CPSC-CH-C1001-09.4	0.4957		1.54
3150	CPSC-CH-C1001-09.4	0.384496	C	-0.21	8021	Japan ST2016	0.4981		1.58
3153		0.3860		-0.18					

normality	OK	
n	174	
outliers	3	
mean (n)	0.39769	
st.dev. (n)	0.063126	RSD = 16%
R(calc.)	0.17675	
st.dev.(iis memo 1701)	0.063631	
R(iis memo 1701)	0.17817	

Lab 658: first reported 0.113
Lab 2175: test result witdrawn reported 0
Lab 2242: first reported 0.6109
Lab 2267: first reported 0.078
Lab 2358: first reported 4824.682 %M/M
Lab 2379: first reported 0.134
Lab 2390: first reported 0.615
Lab 2426: reported 5184.31 %M/M
Lab 2549: first reported 4020 %M/M
Lab 2553: first reported 3818.39 %M/M
Lab 2560: first reported 0.44378 as DBP
Lab 2728: first reported 0.1905
Lab 2835: first reported 0.2078866
Lab 3150: first reported 0.16849
Lab 3154: first reported 1.95
Lab 3163: first reported 3800 %M/M





Determination of DINP – Diisononylphthalate on sample #19546; results in %M/M

Lab	method	Value	mark	z(targ)	Lab	method	value	mark	z(targ)
110	In house	0.0155		-----	2357	CPSC-CH-C1001-09.3	ND		-----
210		-----		-----	2358	CPSC-CH-C1001-09.3	0.0195704	C	-----
230		-----		-----	2363	CPSC-CH-C1001-09.4	ND		-----
330	In house	0.02		-----	2365	IEC62321-8	<0.0050		-----
339	In house	0.0559	R(0.01)	-----	2366	CPSC-CH-C1001-09.4	<0.015		-----
348		<0.005		-----	2369	CPSC-CH-C1001-09.3	<0.005		-----
362		-----		-----	2370	CNS15138-1	<0.00500		-----
523	CPSC-CH-C1001-09.4	0.0212		-----	2372	EN14372	n.d.		-----
551	In house	0.0180		-----	2374		-----		-----
623	CPSC-CH-C1001-09.3	0.020		-----	2375		-----		-----
632	CPSC-CH-C1001-09.3	<0.005		-----	2378		-----		-----
658	CPSC-CH-C1001-09.3	ND		-----	2379		Not det.		-----
826		-----		-----	2380	ISO14389	ND		-----
840	CPSC-CH-C1001-09.3	not det.		-----	2381		-----		-----
1051	GB/T22048	0.0230		-----	2382		-----		-----
1213	CPSC_CH-C1001-09.4	not det.		-----	2384		0.032		-----
2102	In house	0.03578		-----	2386	ISO14389	<0,003		-----
2104	CPSC-CH-C1001-09.3	0.02278		-----	2387		-----		-----
2108		-----		-----	2390		-----		-----
2115		-----		-----	2410		-----		-----
2121		-----		-----	2415	ISO14389	0.0202		-----
2129	ISO14389	0.0384		-----	2425	In house	ND		-----
2132	CPSC-CH-C1001-09.4	0.0187		-----	2426	CPSC-CH-C1001-09.4	ND		-----
2137		-----		-----	2429	CPSC-CH-C1001-09.3	ND		-----
2138	IEC62321-8	N.D.		-----	2431	CPSC-CH-C1001-09.3	0.025		-----
2139		-----		-----	2438		-----		-----
2156	CPSC-CH-C1001-09.3	<0.01		-----	2442	CPSC-CH-C1001-09.3	ND		-----
2159	ISO14389	<0,005		-----	2453	CPSC-CH-C1001-09.3	0.016		-----
2165		-----		-----	2459	CPSC-CH-C1001-09.4	0.0188		-----
2170		-----		-----	2460		-----		-----
2172		-----		-----	2462		-----		-----
2175		0	ex	-----	2467		-----		-----
2182		-----		-----	2475		-----		-----
2184		-----		-----	2476	CPSC-CH-C1001-09.3	not det.		-----
2190		0.021		-----	2482		-----		-----
2201	CPSC-CH-C1001-09.3	<0.01		-----	2486	In house	ND		-----
2202	In house	N.D.		-----	2488		-----		-----
2213	ISO14389	<0.005		-----	2492	In house	0.0138		-----
2216	CPSC-CH-C1001-09.4	0	ex	-----	2495	CPSC-CH-C1001-09.3	<0.001		-----
2217		0.017		-----	2497	CPSC-CH-C1001-09.3	0.0073		-----
2218		-----		-----	2500	CPSC-CH-C1001-09.4	N.D.		-----
2222	In house	ND		-----	2503		-----		-----
2223		-----		-----	2504	CPSC-CH-C1001-09.4	n.d.		-----
2230	CPSC-CH-C1001-09.4	<0.0050		-----	2507	CPSC-CH-C1001-09.3	< 0.100		-----
2232		-----		-----	2510		-----		-----
2236		-----		-----	2511		-----		-----
2242		-----		-----	2514		-----		-----
2247	ISO14389	ND		-----	2522	CPSC-CH-C1001-09.3	<0.01		-----
2250		-----		-----	2529		-----		-----
2255	ISO14389	n.d		-----	2538		-----		-----
2256		-----		-----	2549	ISO14389	ND		-----
2258		-----		-----	2553	In house	ND		-----
2265		-----		-----	2560		-----		-----
2266		-----		-----	2563	ISO14389	n.d.		-----
2267		0.006		-----	2567	CPSC-CH-C1001-09.3	<0.01		-----
2272	ISO14389	0.0261		-----	2569	CPSC-CH-C1001-09.3	0.016		-----
2284		-----		-----	2572	CPSC-CH-C1001-09.3	<0.01		-----
2288	CPSC-CH-C1001-09.3	<0.03		-----	2582		-----		-----
2289	ISO8124-6 Meth.C	0.027		-----	2590		-----		-----
2290	CPSC-CH-C1001-09.3	<0.01		-----	2591	CPSC-CH-C1001-09.3	0.021		-----
2293	CPSC-CH-C1001-09.3	<0.009		-----	2629	CPSC-CH-C1001-09.4	ND		-----
2295		-----		-----	2641	CPSC-CH-C1001-09.4	ND		-----
2301	CPSC-CH-C1001-09.3	ND		-----	2642	CPSC-CH-C1001-09.4	<0.03		-----
2310	CPSC-CH-C1001-09.3	0.017		-----	2665	In house	<0,01		-----
2311	CPSC-CH-C1001-09.3	0.01790		-----	2668	CPSC-CH-C1001-09.3	BDL		-----
2313	ISO14389	0.0198		-----	2672	In house	<0.0050		-----
2314		0.0147		-----	2674	CPSC-CH-C1001-09.4	n.d.		-----
2316	IEC62321-8	0.01825		-----	2678		-----		-----
2330	CPSC-CH-C1001-09.3/4	0.012275		-----	2705		-----		-----
2347		<0.005		-----	2720	CPSC-CH-C1001-09.3	ND		-----
2350		-----		-----	2722	CPSC-CH-C1001-09.3	0.023		-----
2352		-----		-----	2728	EN71-5	< 0.015		-----
2353	IEC62321-8	0.02054		-----	2730		-----		-----
2355	IEC62321-8	<0.005		-----	2734	CPSC-CH-C1001-09.3	Nd		-----

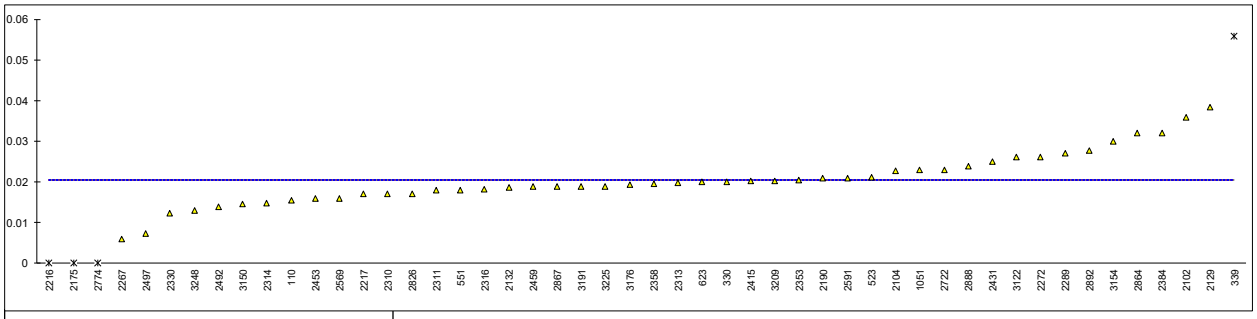
lab	method	value	mark	z(targ)	lab	method	Value	mark	z(targ)
2736		<0.01		-----	3154	In house	0.030		-----
2737		-----		-----	3160		-----		-----
2741	ISO14389	<0.005		-----	3163		-----		-----
2774	ISO14389	0	ex	-----	3166	In house	<0.05		-----
2787		-----		-----	3172		-----		-----
2805	CPSC-CH-C1001-09.4	ND		-----	3176	CPSC-CH-C1001-09.3	0.0192		-----
2816		-----		-----	3182	CPSC-CH-C1001-09.3	<0.0090		-----
2821	AfPS GS2014	<0,05		-----	3185	CPSC-CH-C1001-09.4	<0.0100		-----
2824		-----		-----	3191	ISO8124-6	0.0189		-----
2826	CPSC-CH-C1001-09.3	0.017		-----	3192	In house	<0,1		-----
2827	ISO14389	not det.		-----	3197	CPSC-CH-C1001-09.3	ND		-----
2829		-----		-----	3209	CPSC-CH-C1001-09.4	0.0203		-----
2835		-----		-----	3210	In house	<0.005		-----
2841		-----		-----	3213		-----		-----
2855		-----		-----	3214	CPSC-CH-C1001-09.4	<0.005		-----
2858	ISO14389	n.d		-----	3218		-----		-----
2863		-----		-----	3225	CPSC-CH-C1001-09.4	0.0189		-----
2864		0.0319		-----	3228		-----		-----
2867	CPSC-CH-C1001-09.3	0.0188		-----	3237		-----		-----
2879		-----		-----	3238		-----		-----
2884		-----		-----	3239		-----		-----
2888	In house	0.02379		-----	3243	In house	n.d.		-----
2892	CPSC-CH-C1001-09.4	0.0277		-----	3248	In house	0.013		-----
3100	ISO8124-6 Meth.C	<0.0100		-----	3250		-----		-----
3116		-----		-----	8005		-----		-----
3118	CPSC-CH-C1001-09.3	nd		-----	8006		-----		-----
3122	CPSC-CH-C1001-09.3	0.026		-----	8007		-----		-----
3146		-----		-----	8020		-----		-----
3150	CPSC-CH-C1001-09.4	0.01453		-----	8021		-----		-----
3153		-----		-----					

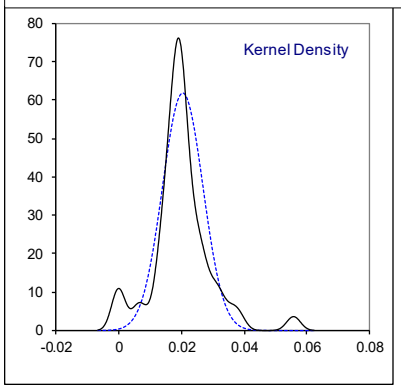
			All test results after recalc. *)
normality	suspect		OK
n	46		80
outliers	1 (+3 ex)		3 (+3ex)
mean (n)	0.02051		0.01415
st.dev. (n)	0.006451	RSD = 31%	0.009673
R(calc.)	0.01806		0.02708
st.dev.(iis memo 1701)	(0.003282)		(0.002264)
R(iis memo 1701)	(0.00919)		(0.00634)

Lab 2358: first reported 195.70406 %M/M

ex = Test result is excluded as zero is not a real result

*) In the calculation of the mean, standard deviation and the reproducibility, a reported value of '<x' is changed into x/2 (for example: <0.005 into 0.0025)





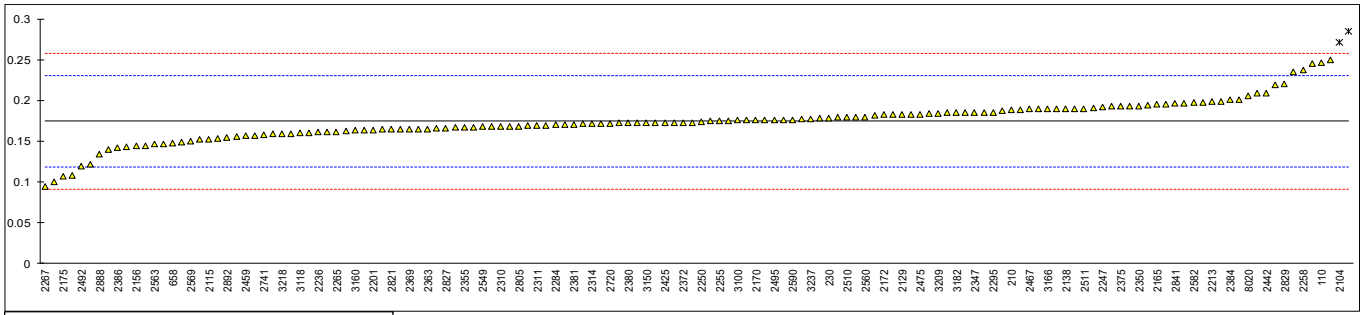
Determination of DEP – Diethylphthalate on sample #19546; results in %M/M

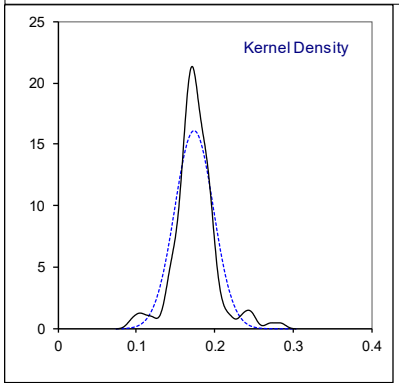
Lab	method	Value	mark	z(targ)	Lab	method	value	mark	z(targ)
110	In house	0.2460		2.57	2357	CPSC-CH-C1001-09.3	0.1827		0.30
210	ISO14389	0.18890		0.53	2358	CPSC-CH-C1001-09.3	N/A		-----
230	ISO14389	0.1786		0.16	2363	CPSC-CH-C1001-09.4	0.165		-0.33
330		-----		-----	2365	IEC62321-8	0.16178		-0.45
339	In house	0.1906		0.59	2366	CPSC-CH-C1001-09.4	0.173		-0.04
348		0.1846		0.37	2369	CPSC-CH-C1001-09.3	0.165		-0.33
362		-----		-----	2370	CNS15138-1	0.164		-0.37
523		-----		-----	2372	EN14372	0.173		-0.04
551	In house	0.1082		-2.37	2374	In house	0.165		-0.33
623	CPSC-CH-C1001-09.3	0.168		-0.22	2375	CPSC-CH-C1001-09.3	0.193		0.67
632	CPSC-CH-C1001-09.3	NA		-----	2378	EN14372	0.1763		0.07
658	CPSC-CH-C1001-09.3	0.147		-0.98	2379		NA		-----
826		-----		-----	2380	ISO14389	0.17213		-0.08
840	CPSC-CH-C1001-09.3	0.1643		-0.36	2381	CPSC-CH-C1001-09.3	0.1700		-0.15
1051		-----		-----	2382	ISO14389	0.1670		-0.26
1213	CPSC_CH-C1001-09.4	NA		-----	2384		0.201	C	0.96
2102		-----		-----	2386	ISO14389	0.1416		-1.17
2104	CPSC-CH-C1001-09.3	0.2712	R(0.05)	3.48	2387	IEC62321-8	0.1966	C	0.80
2108	ISO14389	0.182		0.28	2390	CPSC-CH-C1001-09.3	0.219		1.61
2115	CPSC-CH-C1001-09.3	0.152		-0.80	2410	CPSC-CH-C1001-09.3	0.15908		-0.54
2121		-----		-----	2415	ISO14389	0.1427		-1.13
2129	ISO14389	0.1829	C	0.31	2425	In house	0.1728		-0.05
2132	CPSC-CH-C1001-09.4	0.1933		0.68	2426	CPSC-CH-C1001-09.4	0.189452	C	0.55
2137	IEC62321-8	0.201		0.96	2429	CPSC-CH-C1001-09.3	0.1690		-0.19
2138	IEC62321-8	0.190		0.57	2431		-----		-----
2139	KS M1991	0.175		0.03	2438		-----		-----
2156	CPSC-CH-C1001-09.3	0.14384		-1.09	2442	CPSC-CH-C1001-09.3	0.20894		1.24
2159	ISO14389	0.1898		0.56	2453		-----		-----
2165	CPSC-CH-C1001-094	0.1948		0.74	2459	CPSC-CH-C1001-09.4	0.1568		-0.63
2170	CPSC-CH-C1001-09.3	0.17589		0.06	2460		-----		-----
2172	In house	0.1825		0.30	2462	IEC62321-8/ GB/T22048	0.190		0.57
2175		0.1068	C	-2.42	2467	CPSC-CH-C1001-09.3	0.1891		0.53
2182		-----		-----	2475	In house	0.1831		0.32
2184		-----		-----	2476		-----		-----
2190		-----		-----	2482	CPSC-CH-C1001-09.3	0.183		0.31
2201	CPSC-CH-C1001-09.3	0.1638		-0.37	2486	In house	0.1788808		0.17
2202		-----		-----	2488	In house	0.2446		2.52
2213	ISO14389	0.1989		0.88	2492	In house	0.1187		-1.99
2216		-----		-----	2495	CPSC-CH-C1001-09.3	0.17629		0.07
2217		0.16		-0.51	2497	CPSC-CH-C1001-09.3	0.1214		-1.90
2218		-----		-----	2500	CPSC-CH-C1001-09.4	0.1833		0.33
2222	In house	<0.1		-----	2503		0.173		-0.04
2223	In house	0.2088		1.24	2504	CPSC-CH-C1001-09.4	n.a.		-----
2230	CPSC-CH-C1001-09.4	0.17		-0.15	2507		-----		-----
2232		-----		-----	2510	In house	0.179		0.17
2236		0.1608611		-0.48	2511		0.190		0.57
2242		-----		-----	2514	ISO14389	0.1749		0.02
2247	ISO14389	0.1914		0.62	2522		-----		-----
2250	ISO14389	0.1733		-0.03	2529		-----		-----
2255	ISO14389	0.1750		0.03	2538		-----		-----
2256		0.194		0.71	2549	ISO14389	0.1677	C	-0.23
2258	CPSC-CH-C1001-09.3	0.23695		2.25	2553	In house	0.1714	C	-0.10
2265	ISO14389	0.1610		-0.47	2560		0.17965		0.19
2266		-----		-----	2563	ISO14389	0.146		-1.01
2267		0.094	C	-2.88	2567	CPSC-CH-C1001-09.3	0.1726		-0.06
2272	ISO14389	0.1844		0.36	2569	CPSC-CH-C1001-09.3	0.15		-0.87
2284	CPSC-CH-C1001-09.3	0.1697		-0.16	2572	CPSC-CH-C1001-09.3	0.1592		-0.54
2288	CPSC-CH-C1001-09.3	Unmeasured		-----	2582	ISO14389	0.19791		0.85
2289		-----		-----	2590	CPSC-CH-C1001-09.3	0.17637		0.08
2290	CPSC-CH-C1001-09.3	0.1610		-0.47	2591	CPSC-CH-C1001-09.3	0.285	R(0.01)	3.97
2293	CPSC-CH-C1001-09.3	0.187		0.46	2629	CPSC-CH-C1001-09.4	0.2348		2.17
2295	CPSC-CH-C1001-09.3	0.1852		0.39	2641		-----		-----
2301	CPSC-CH-C1001-09.3	0.185		0.39	2642		-----		-----
2310	CPSC-CH-C1001-09.3	0.168		-0.22	2665	In house	0.171		-0.12
2311	CPSC-CH-C1001-09.3	0.16939		-0.17	2668	CPSC-CH-C1001-09.3	0.1681		-0.22
2313	ISO14389	0.1485		-0.92	2672	In house	0.17215		-0.07
2314		0.1714		-0.10	2674	CPSC-CH-C1001-09.4	n.a.		-----
2316	IEC62321-8	NA		-----	2678		-----		-----
2330	CPSC-CH-C1001-09.3/4	0.19795		0.85	2705	In house	0.1758		0.06
2347		0.1847		0.38	2720	CPSC-CH-C1001-09.3	0.1717		-0.09
2350	CPSC-CH-C1001-09.3	0.1934		0.69	2722		-----		-----
2352	CPSC-CH-C1001-09.4	0.1663		-0.28	2728		-----		-----
2353		-----		-----	2730		-----		-----
2355	IEC62321-8	0.1663		-0.28	2734	CPSC-CH-C1001-09.3	0.1652		-0.32

lab	method	value	mark	z(targ)	lab	method	value	mark	z(targ)
2736		-----		-----	3154	In house	0.14	C	-1.23
2737	ISO14389	0.14643		-1.00	3160	ISO/TS16181	0.163		-0.40
2741	ISO14389	0.1572		-0.61	3163		0.25	C	2.72
2774	ISO14389	0.1795		0.19	3166	In house	0.1896		0.55
2787		-----	W	-----	3172	CPSC-CH-C1001-09.3	0.1929		0.67
2805	CPSC-CH-C1001-09.4	0.1685		-0.21	3176	CPSC-CH-C1001-09.3	0.1571		-0.61
2816		-----		-----	3182	CPSC-CH-C1001-09.3	0.1844		0.36
2821	AfPS GS2014	0.164		-0.37	3185		-----		-----
2824		-----		-----	3191	ISO8124-6	0.1632		-0.40
2826		-----		-----	3192		-----		-----
2827	ISO14389	0.166		-0.30	3197	CPSC-CH-C1001-09.3	0.1957		0.77
2829	CPSC-CH-C1001-09.4	0.220		1.64	3209	CPSC-CH-C1001-09.4	0.184		0.35
2835		0.1001739		-2.66	3210	In house	0.1765		0.08
2841	In house	0.19615		0.79	3213		-----		-----
2855		-----		-----	3214	CPSC-CH-C1001-09.4	0.1694		-0.17
2858	ISO14389	0.178244		0.14	3218	CPSC-CH-C1001-09.3	0.1591		-0.54
2863		-----		-----	3225	CPSC-CH-C1001-09.4	NA		-----
2864		0.1516		-0.81	3228		0.1989		0.88
2867	CPSC-CH-C1001-09.3	0.1889		0.53	3237	CPSC-CH-C1001-09.3	0.1774		0.11
2879		-----		-----	3238		-----		-----
2884		-----		-----	3239	In house	0.172		-0.08
2888	In house	0.13440		-1.43	3243	In house	0.144		-1.08
2892	CPSC-CH-C1001-09.4	0.1538		-0.73	3248	In house	0.155		-0.69
3100	ISO8124-6 Meth.C	0.1755		0.05	3250	CPSC-CH-C1001-09.3	0.176		0.06
3116		-----		-----	8005		-----		-----
3118	CPSC-CH-C1001-09.3	0.1596		-0.53	8006		-----		-----
3122		-----		-----	8007		-----		-----
3146	In house	0.153		-0.76	8020	CPSC-CH-C1001-09.4	0.2059		1.14
3150	CPSC-CH-C1001-09.4	0.17259		-0.06	8021		-----		-----
3153		-----		-----					

normality	not OK	
n	142	
outliers	2	
mean (n)	0.17424	
st.dev. (n)	0.024718	RSD = 14%
R(calc.)	0.06921	
st.dev.(iis memo 1701)	0.027878	
R(iis memo 1701)	0.07806	

Lab 2129: first reported <0.02
Lab 2175: first reported 0.08757
Lab 2267: first reported 0.048
Lab 2384: first reported 0.293
Lab 2387: first reported 0.2785
Lab 2426: reported 1894.52 %M/M
Lab 2549: first reported 1677 %M/M
Lab 2553: first reported 1794 %M/M
Lab 2787: test result withdrawn, reported 0.2701
Lab 3154: first reported 0.0145
Lab 3163: first reported 2500 %M/M





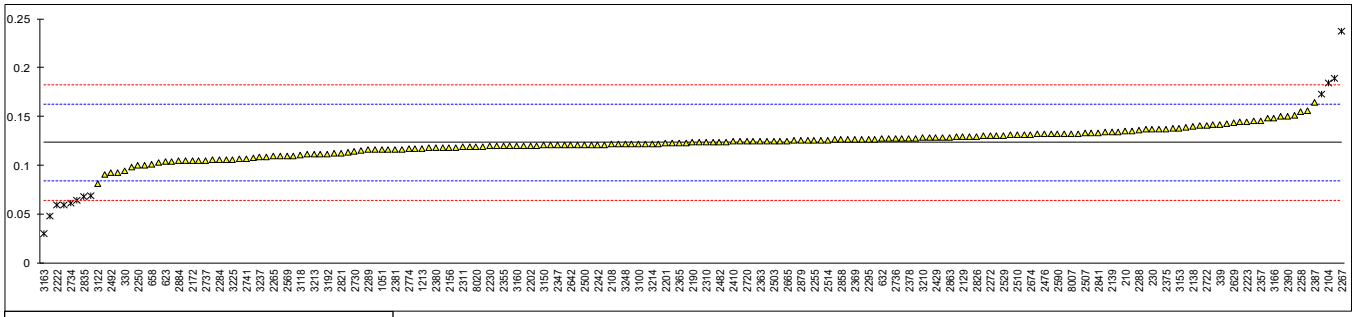
Determination of DIBP – Diisobutylphthalate on sample #19546; results in %M/M

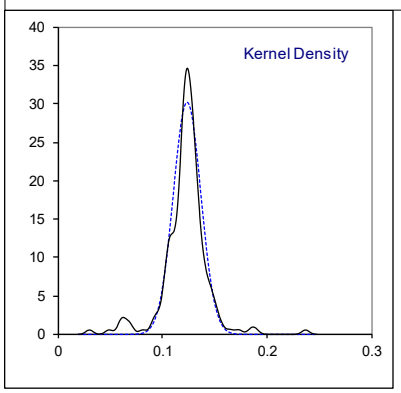
Lab	method	Value	mark	z(targ)	Lab	method	value	mark	z(targ)
110	In house	0.1052		-0.93	2357	CPSC-CH-C1001-09.3	0.1461		1.14
210	ISO14389	0.13535		0.60	2358	CPSC-CH-C1001-09.3	N/A		-----
230	ISO14389	0.1368		0.67	2363	CPSC-CH-C1001-09.4	0.125		0.07
330	In house	0.095		-1.44	2365	IEC62321-8	0.12327		-0.01
339	In house	0.1415		0.91	2366	CPSC-CH-C1001-09.4	0.128		0.23
348		0.1460		1.14	2369	CPSC-CH-C1001-09.3	0.127		0.18
362	In house	0.131		0.38	2370	CNS15138-1	0.126		0.13
523	CPSC-CH-C1001-09.4	0.11001		-0.68	2372	EN14372	0.126		0.13
551	In house	0.04870	C,R(0.05)	-3.79	2374	In house	0.125		0.07
623	CPSC-CH-C1001-09.3	0.104		-0.99	2375	CPSC-CH-C1001-09.3	0.137		0.68
632	CPSC-CH-C1001-09.3	0.127481		0.20	2378	EN14372	0.1280		0.23
658	CPSC-CH-C1001-09.3	0.101		-1.14	2379		0.069	R(0.05)	-2.76
826	IEC62321-8	0.139		0.78	2380	ISO14389	0.11807		-0.28
840	CPSC-CH-C1001-09.3	0.1045		-0.96	2381	CPSC-CH-C1001-09.3	0.1165		-0.36
1051	GB/T22048	0.1162		-0.37	2382	ISO14389	0.1270		0.18
1213	CPSC_CH-C1001-09.4	0.117		-0.33	2384		0.173	R(0.05)	2.50
2102	In house	0.12234		-0.06	2386	ISO14389	0.0988		-1.25
2104	CPSC-CH-C1001-09.3	0.1847	R(0.05)	3.10	2387	IEC62321-8	0.16446		2.07
2108	ISO14389	0.122		-0.08	2390	CPSC-CH-C1001-09.3	0.150		1.34
2115	CPSC-CH-C1001-09.3	0.129		0.28	2410	CPSC-CH-C1001-09.3	0.12453		0.05
2121	ISO14389	0.15		1.34	2415	ISO14389	0.1094		-0.71
2129	ISO14389	0.1296		0.31	2425	In house	0.1220		-0.08
2132	CPSC-CH-C1001-09.4	0.1127		-0.55	2426	CPSC-CH-C1001-09.4	0.1308	C	0.37
2137		-----		-----	2429	CPSC-CH-C1001-09.3	0.1285		0.25
2138	IEC62321-8	0.140		0.83	2431	CPSC-CH-C1001-09.3	0.13		0.33
2139	KS M1991	0.134		0.53	2438		-----		-----
2156	CPSC-CH-C1001-09.3	0.11850		-0.25	2442	CPSC-CH-C1001-09.3	0.12839		0.25
2159	ISO14389	0.1203		-0.16	2453	CPSC-CH-C1001-09.3	0.134		0.53
2165	CPSC-CH-C1001-094	0.1324		0.45	2459	CPSC-CH-C1001-09.4	0.118		-0.28
2170	CPSC-CH-C1001-09.3	0.13690		0.68	2460	CPSC-CH-C1001-09.3	0.1356		0.61
2172	In house	0.1050		-0.94	2462	IEC62321-8/ GB/T22048	0.128		0.23
2175		0.06432	R(0.05)	-3.00	2467	CPSC-CH-C1001-09.3	0.1367		0.67
2182		0.1304		0.35	2475	In house	0.1294		0.30
2184		-----		-----	2476	CPSC-CH-C1001-09.3	0.1320		0.43
2190		0.1235		0.00	2482	CPSC-CH-C1001-09.3	0.124		0.02
2201	CPSC-CH-C1001-09.3	0.1230		-0.03	2486	In house	0.123917		0.02
2202	In house	0.1202	C	-0.17	2488	In house	0.1563		1.66
2213	ISO14389	0.1186		-0.25	2492	In house	0.0926		-1.56
2216	CPSC-CH-C1001-09.4	0.1248		0.06	2495	CPSC-CH-C1001-09.3	0.13196		0.43
2217		0.12		-0.18	2497	CPSC-CH-C1001-09.3	0.1001		-1.18
2218	CPSC-CH-C1001-09.3	0.12139		-0.11	2500	CPSC-CH-C1001-09.4	0.1212		-0.12
2222	In house	0.06	R(0.05)	-3.21	2503		0.125		0.07
2223	In house	0.1450		1.09	2504	CPSC-CH-C1001-09.4	0.121		-0.13
2230	CPSC-CH-C1001-09.4	0.12		-0.18	2507	CPSC-CH-C1001-09.3	0.133		0.48
2232	CPSC-CH-C1001-09.4	0.1233		-0.01	2510	In house	0.131		0.38
2236		0.1162427		-0.37	2511		0.125		0.07
2242		0.1215		-0.10	2514	ISO14389	0.1262		0.14
2247	ISO14389	0.1484		1.26	2522	CPSC-CH-C1001-09.3	0.131		0.38
2250	ISO14389	0.100		-1.19	2529	CPSC-CH-C1001-09.4	0.13091		0.37
2255	ISO14389	0.1260		0.13	2538		-----		-----
2256		-----		-----	2549	ISO14389	0.1168	C	-0.34
2258	CPSC-CH-C1001-09.3	0.15464		1.57	2553	In house	0.1345	C	0.56
2265	ISO14389	0.1094		-0.71	2560		0.12016		-0.17
2266	CPSC-CH-C1001-09.3	0.06	C,R(0.05)	-3.21	2563	ISO14389	0.093		-1.54
2267		0.237	C,R(0.01)	5.74	2567	CPSC-CH-C1001-09.3	0.1243		0.04
2272	ISO14389	0.1306		0.36	2569	CPSC-CH-C1001-09.3	0.11		-0.68
2284	CPSC-CH-C1001-09.3	0.1061		-0.88	2572	CPSC-CH-C1001-09.3	0.1231		-0.02
2288	CPSC-CH-C1001-09.3	0.13643		0.65	2582	ISO14389	0.13349	C	0.50
2289	ISO8124-6 Meth.C	0.116		-0.38	2590	CPSC-CH-C1001-09.3	0.13234		0.45
2290	CPSC-CH-C1001-09.3	0.1240		0.02	2591	CPSC-CH-C1001-09.3	0.189	R(0.05)	3.31
2293	CPSC-CH-C1001-09.3	0.115		-0.43	2629	CPSC-CH-C1001-09.4	0.1438		1.03
2295	CPSC-CH-C1001-09.3	0.127		0.18	2641	CPSC-CH-C1001-09.4	0.1182		-0.27
2301	CPSC-CH-C1001-09.3	0.119		-0.23	2642	CPSC-CH-C1001-09.4	0.1210		-0.13
2310	CPSC-CH-C1001-09.3	0.124		0.02	2665	In house	0.125		0.07
2311	CPSC-CH-C1001-09.3	0.11887		-0.24	2668	CPSC-CH-C1001-09.3	0.1207		-0.14
2313	ISO14389	0.1065		-0.86	2672	In house	0.12150		-0.10
2314		0.1059		-0.89	2674	CPSC-CH-C1001-09.4	0.1314		0.40
2316	IEC62321-8	0.10617		-0.88	2678		-----		-----
2330	CPSC-CH-C1001-09.3/4	0.15120		1.40	2705		-----		-----
2347		0.1210		-0.13	2720	CPSC-CH-C1001-09.3	0.1247		0.06
2350	CPSC-CH-C1001-09.3	0.1409		0.88	2722	CPSC-CH-C1001-09.3	0.141		0.88
2352	CPSC-CH-C1001-09.4	0.1275		0.20	2728		-----		-----
2353	IEC62321-8	0.10488	C	-0.94	2730		0.114		-0.48
2355	IEC62321-8	0.1200		-0.18	2734	CPSC-CH-C1001-09.3	0.06174	R(0.05)	-3.13

Lab	method	value	mark	z(targ)	lab	method	value	mark	z(targ)
2736		0.1277		0.21	3154	In house	0.12		-0.18
2737	ISO14389	0.10523		-0.93	3160	ISO/TS16181	0.120		-0.18
2741	ISO14389	0.1067		-0.85	3163		0.03	C,R(0.01)	-4.73
2774	ISO14389	0.1169		-0.33	3166	In house	0.1484		1.26
2787		-----	W	-----	3172	CPSC-CH-C1001-09.3	0.1135		-0.51
2805	CPSC-CH-C1001-09.4	0.1169		-0.33	3176	CPSC-CH-C1001-09.3	0.1196		-0.20
2816		-----		-----	3182	CPSC-CH-C1001-09.3	0.1267		0.16
2821	AfPS GS2014	0.113		-0.53	3185	CPSC-CH-C1001-09.4	0.1263		0.14
2824		-----		-----	3191	ISO8124-6	0.1222		-0.07
2826	CPSC-CH-C1001-09.3	0.13		0.33	3192	In house	0.112		-0.58
2827	ISO14389	0.116		-0.38	3197	CPSC-CH-C1001-09.3	0.1449		1.08
2829	CPSC-CH-C1001-09.4	0.138		0.73	3209	CPSC-CH-C1001-09.4	0.127		0.18
2835		0.0685907	R(0.05)	-2.78	3210	In house	0.1282		0.24
2841	In house	0.13378		0.52	3213	IEC62321-8	0.1115		-0.61
2855	IEC62321-8Mod.	0.1327		0.46	3214	CPSC-CH-C1001-09.4	0.1222		-0.07
2858	ISO14389	0.126564		0.15	3218	CPSC-CH-C1001-09.3	0.1254		0.10
2863		0.129		0.28	3225	CPSC-CH-C1001-09.4	0.10641		-0.87
2864		0.1120		-0.58	3228		0.1246		0.05
2867	CPSC-CH-C1001-09.3	0.1414		0.90	3237	CPSC-CH-C1001-09.3	0.1084		-0.76
2879	CPSC-CH-C1001-09.3	0.1259		0.12	3238		-----		-----
2884	IEC62321-8	0.10485		-0.94	3239	In house	0.108		-0.79
2888	In house	0.09097		-1.65	3243	In house	0.109		-0.73
2892	CPSC-CH-C1001-09.4	0.1115		-0.61	3248	In house	0.122		-0.08
3100	ISO8124-6 Meth.C	0.1221		-0.07	3250	CPSC-CH-C1001-09.3	0.121		-0.13
3116	In house	0.1321		0.43	8005	In house	0.1430		0.99
3118	CPSC-CH-C1001-09.3	0.1109		-0.64	8006	In house	0.122		-0.08
3122	CPSC-CH-C1001-09.3	0.081		-2.15	8007	CPSC-CH-C1001-09.3	0.1324		0.45
3146	In house	0.103		-1.04	8020	CPSC-CH-C1001-09.4	0.1194		-0.21
3150	CPSC-CH-C1001-09.4	0.12064		-0.15	8021		-----		-----
3153		0.1380		0.73					

normality	OK	
n	181	
outliers	12	
mean (n)	0.12352	
st.dev. (n)	0.013175	RSD = 11%
R(calc.)	0.03689	
st.dev.(iis memo 1701)	0.019763	
R(iis memo 1701)	0.05534	

Lab 551: first reported 0.04129
Lab 2202: first reported 0.3092
Lab 2266: first reported 0.7375
Lab 2267: first reported 0.055
Lab 2353: first reported ND
Lab 2426: reported 1308.00 %M/M
Lab 2549: first reported 1168 %M/M
Lab 2553 first reported 1345.20 %M/M
Lab 2582: first reported 0.19909
Lab 2787: test result withdrawn, reported 0.19403
Lab 3163: first reported 300 %M/M





APPENDIX 2

Abbreviations of components:

BBP = Benzylbutylphthalate
DEHP = Bis-2-ethylhexylphthalate
DBP = Dibutylphthalate
DIDP = Diisodecylphthalate
DINP = Diisononylphthalate
DNOP = Di-n-octylphthalate
DCHP = Dicyclohexylphthalate
DEP = Diethylphthalate
DMP = Dimethylphthalate
DNHP = Di-n-hexylphthalate
DIBP = Diisobutylphthalate
DPHP = Di(2-propylheptyl) phtalate
DNPP = Di-n-pentylphthalate
DUP = Diundecylphthalate
DPRP = Diproylphthalate

Other reported Phthalates in sample #19545; results in %M/M

Lab	BBP	DEHP	DIDP	DNOP	DCHP	DNHP	DIBP	DPHP	DNPP	DUP
110	ND	ND	ND	ND	ND	ND	ND	-----	ND	-----
210	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
230	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
330	<0,005	<0,005	<0,01	-----	-----	<0,005	<0,005	-----	-----	-----
339	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	-----	<0.001	-----
348	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-----	<0.005	-----
362	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
523	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	-----	<0.0075	-----
551	N.D.	0.0067	N.D.	0	N.D.	-----	N.D.	-----	N.D.	N.D.
623	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
632	0.017915	<0.003	<0.005	<0.003	NA	NA	0.011967	NA	NA	NA
658	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA
826	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
840	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.
1051	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1213	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.
2102	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2104	-----	0.0007243	-----	-----	-----	-----	-----	-----	-----	-----
2108	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2115	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2121	-----	-----	-----	-----	-----	-----	0.002	-----	-----	-----
2129	<0,02	<0,02	<0,02	<0,02	<0,02	<0,02	<0,02	<0,02	<0,02	n.a.
2132	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2137	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2138	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.A.	N.D.	N.D.
2139	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2156	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-----	<0.01	-----
2159	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005
2165	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2170	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2172	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2175	0	0	-----	5.76	0	0	0	0	0	0
2182	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2184	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2190	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-----	<0.01	<0.01
2201	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2202	N.D.	N.D.	N.D.	N.D.	-----	-----	N.D.	-----	-----	-----
2213	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2216	0	0	0	0	0	0	0	-----	0	-----
2217	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2218	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2222	ND	ND	ND	ND	ND	ND	<0.01	NA	NA	NA
2223	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2230	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
2232	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2236	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2242	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2247	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2250	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2255	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d
2256	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2258	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2265	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2266	-----	0.0065	-----	-----	-----	-----	0.0098	-----	-----	-----
2267	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2272	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2284	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2288	<0.01	<0.01	<0.01	<0.01	not det.	not det.	<0.01	not det.	not det.	not det.
2289	<0.01	<0.01	<0.01	<0.01	-----	-----	<0.01	-----	-----	-----

Lab	BBP	DEHP	DIDP	DNOP	DCHP	DNHP	DIBP	DPHP	DNPP	DUP
2290	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2293	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	-----	<0.009	-----
2295	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2301	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2310	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.
2311	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.
2313	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.
2314	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2316	ND	ND	ND	ND	NA	NA	ND	NA	NA	NA
2330	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2347	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2350	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2352	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2353	ND	ND	ND	ND	-----	-----	ND	-----	-----	-----
2355	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2357	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2358	n.d.	n.d.	n.d.	n.d.	N/A	N/A	N/A	N/A	N/A	N/A
2363	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2365	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
2366	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2369	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2370	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
2372	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2374	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2375	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2378	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2379	not det.	not det.	not det.	not det.	Not tested	Not tested	not det.	Not tested	Not tested	Not tested
2380	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2381	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2382	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2384	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	-----	<0.005	<0.005
2386	<0,003	<0,003	<0,003	<0,003	<0,003	<0,003	<0,003	<0,003	<0,003	<0,003
2387	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2390	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2410	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2415	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2425	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2426	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2429	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2431	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2438	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2442	ND	ND	ND	ND	ND	ND	ND	-----	ND	ND
2453	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2459	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2460	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2462	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2467	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2475	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2476	not det.	not det.	not det.	not det.	not det.	not det.	not det.	-----	-----	-----
2482	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2486	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2488	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2492	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2495	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2497	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2500	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
2503	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2504	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.a.	n.d.	n.a.
2507	< 0.100	< 0.100	< 0.100	-----	-----	-----	-----	-----	-----	-----
2510	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2511	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2514	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2522	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-----	<0.01	-----
2529	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2538	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2549	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2553	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2560	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2563	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	-----	n.d.	-----
2567	<0.01%	<0.01%	<0.01%	<0.01%	<0.01%	<0.01%	<0.01%	<0.01%	<0.01%	<0.01%
2569	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2572	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2582	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2590	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2591	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-----	<0.005	-----
2629	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2641	ND	ND	-----	-----	ND	ND	ND	-----	ND	-----

Lab	BBP	DEHP	DIDP	DNOP	DCHP	DNHP	DIBP	DPHP	DNPP	DUP
2642	<0.03	<0.03	-----	-----	<0.03	<0.03	<0.03	-----	<0.03	-----
2665	<0,01	<0,01	<0,1	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	-----
2668	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.
2672	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
2674	n.d.	n.d.	n.a.	n.a.	n.d.	n.d.	n.d.	n.a.	n.d.	n.a.
2678	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2705	-----	0.0008	-----	-----	-----	-----	-----	-----	-----	-----
2720	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2722	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2728	< 0.005	< 0.005	< 0.015	< 0.005	-----	-----	-----	-----	-----	-----
2730	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2734	nd	0.1152	nd	nd	nd	nd	nd	nd	nd	nd
2736	<0.01	<0.01	-----	-----	<0.01	<0.01	<0.01	-----	<0.01	-----
2737	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2741	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2774	0	0	0	0	0	0	0	0	0	0
2787	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2805	ND	ND	ND	ND	ND	ND	ND	-----	ND	-----
2816	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2821	<0,02	<0,02	<0,05	<0,05	-----	<0,02	<0,05	-----	<0,05	<0,05
2824	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2826	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2827	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.
2829	0.092	-----	-----	-----	0.034	-----	-----	-----	-----	-----
2835	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2841	0	0.00057	-----	-----	0	-----	0.00036	-----	-----	-----
2855	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2858	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d
2863	-----	-----	< 0,010	-----	-----	-----	< 0,001	-----	-----	-----
2864	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2867	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2879	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2884	N.D	N.D	-----	-----	-----	-----	N.D	-----	-----	-----
2888	-----	0.001892	-----	-----	-----	-----	-----	-----	-----	-----
2892	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	-----
3116	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3118	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3122	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	-----	< 0.0025	< 0.0025	< 0.0025	-----
3146	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3150	<0,005	0.01352	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005	0.07965	<0,005
3153	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3154	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3160	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3163	-----	0.01	-----	-----	-----	-----	-----	-----	-----	-----
3166	<0.002	<0.002	<0.05	<0.05	-----	-----	<0.002	-----	-----	-----
3172	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3176	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3182	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090
3185	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	-----	<0.0100	-----
3191	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
3192	<0,01	<0,01	<0,1	<0,01	<0,01	-----	<0,01	<0,01	-----	-----
3197	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3209	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3210	<0.002	<0.002	<0.005	<0.002	<0.002	<0.002	<0.002	-----	<0.002	<0.002
3213	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3214	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3218	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3225	<0.01	<0.01	NA	NA	<0.01	<0.01	<0.01	NA	NA	NA
3228	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3237	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3238	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3239	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3243	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
3248	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3250	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
8005	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
8006	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
8007	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
8020	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
8021	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Other reported Phthalates in sample #19546; results in %M/M

Lab	BBP	DBP	DNOP	DCHP	DMP	DNHP	DPHP	DNPP	DUP	DPRP
110	ND	ND	ND	ND	ND	ND	-----	ND	-----	-----
210	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
230	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
330	<0,005	<0,005	<0,01	-----	-----	<0,005	-----	-----	-----	-----
339	<0.001	0.00115	<0.001	<0.001	0.00421	<0.001	-----	<0.001	-----	0.00115
348	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-----	<0.005	-----	-----
362	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
523	<0.0075	<0.0075	<0.0075	<0.0075	-----	<0.0075	-----	<0.0075	-----	-----
551	N.D.	0.0049	N.D.	N.D.	-----	-----	-----	N.D.	N.D.	0.0036
623	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
632	<0.003	<0.003	<0.003	NA	NA	NA	NA	NA	NA	NA
658	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA
826	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
840	not det.	not det.	not det.	not det.	0.0062	not det.	not det.	not det.	not det.	not det.
1051	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1213	not det.	not det.	not det.	not det.	NA	not det.	not det.	not det.	not det.	not det.
2102	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2104	-----	-----	-----	-----	0.001632	-----	-----	-----	-----	-----
2108	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2115	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2121	-----	0.48	-----	-----	-----	-----	-----	-----	-----	-----
2129	<0,02	<0,02	<0,02	<0,02	<0.02	<0,02	<0,02	<0,02	n.a.	<0,02
2132	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2137	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2138	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.A.	N.D.	N.D.	N.A.
2139	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2156	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-----	<0.01	-----	-----
2159	<0,005	<0,005	<0,005	<0,005	0.0060	<0,005	<0,005	<0,005	<0,005	<0,005
2165	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2170	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2172	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2175	0	0	0.00459	0	0	0	0	0	0	-----
2182	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2184	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2190	<0.01	<0.01	<0.01	<0.01	-----	<0.01	-----	<0.01	<0.01	<0.01
2201	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2202	N.D.	N.D.	N.D.	-----	-----	N.D.	-----	-----	-----	-----
2213	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2216	0	0	0	0	-----	-----	-----	0	-----	-----
2217	-----	-----	-----	-----	0.006	-----	-----	-----	-----	-----
2218	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2222	ND	<0.01	<0.01	ND	NA	ND	NA	NA	NA	NA
2223	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2230	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
2232	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2236	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2242	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2247	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2250	-----	-----	-----	-----	0.0025	-----	-----	-----	-----	-----
2255	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d
2256	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2258	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2265	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2266	0.0095	-----	-----	-----	-----	-----	-----	-----	-----	-----
2267	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2272	-----	-----	-----	-----	0.0061	-----	-----	-----	-----	-----
2284	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2288	<0.01	<0.01	<0.01	not det.	not det.	not det.	not det.	not det.	not det.	not det.
2289	<0.01	<0.01	<0.01	-----	-----	-----	-----	-----	-----	-----
2290	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2293	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	-----	<0.009	-----	<0.009
2295	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2301	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2310	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.
2311	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.
2313	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.
2314	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2316	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
2330	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2347	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2350	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2352	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2353	ND	ND	ND	-----	-----	-----	-----	-----	-----	-----
2355	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Lab	BBP	DBP	DNOP	DCHP	DMP	DNHP	DPHP	DNPP	DUP	DPRP
2357	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2358	n.d.	n.d.	n.d.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2363	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2365	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
2366	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2369	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2370	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
2372	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2374	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2375	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2378	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2379	not det.	0.005	not det.	NA	NA	NA	NA	NA	NA	NA
2380	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2381	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2382	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2384	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-----	<0.005	<0.005	<0.005
2386	<0,003	<0,003	<0,003	<0,003	0.0042	<0,003	<0,003	<0,003	<0,003	<0,003
2387	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2390	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2410	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2415	-----	-----	-----	-----	0.0058	-----	-----	-----	-----	-----
2425	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2426	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2429	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2431	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2438	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2442	ND	ND	ND	ND	-----	ND	-----	ND	ND	ND
2453	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2459	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2460	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2462	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2467	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2475	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2476	not det.	not det.	not det.	not det.	-----	not det.	-----	-----	-----	-----
2482	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2486	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2488	-----	-----	-----	-----	0.0052	-----	-----	-----	-----	-----
2492	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2495	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2497	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2500	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
2503	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2504	n.d.	n.d.	n.d.	n.d.	n.a.	n.d.	n.a.	n.d.	n.a.	n.a.
2507	< 0.100	< 0.100	< 0.100	-----	-----	-----	-----	-----	-----	-----
2510	-----	-----	-----	-----	0.006	-----	-----	-----	-----	-----
2511	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2514	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2522	<0.01	<0.01	<0.01	<0.01	-----	<0.01	-----	<0.01	-----	-----
2529	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2538	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2549	ND	ND	ND	ND	ND	ND	ND	ND	ND	-----
2553	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2560	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2563	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	-----	n.d.	-----	-----
2567	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2569	ND	ND	ND	ND	ND	ND	ND	ND	ND	NP
2572	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2582	-----	-----	-----	0.07396	-----	-----	-----	-----	-----	-----
2590	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2591	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-----	<0.005	-----	-----
2629	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2641	ND	ND	-----	ND	-----	ND	-----	ND	-----	-----
2642	<0.03	<0.03	-----	<0.03	-----	<0.03	-----	<0.03	-----	-----
2665	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	-----	-----
2668	not det.	not det.	not det.	not det.	BDL	not det.	not det.	not det.	not det.	not det.
2672	<0.0050	<0.0050	<0.0050	<0.0050	0.003701	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
2674	n.d.	n.d.	n.a.	n.d.	n.a.	n.d.	n.a.	n.d.	n.a.	n.a.
2678	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2705	-----	-----	-----	-----	0.0057	-----	-----	-----	-----	-----
2720	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2722	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2728	< 0.005	< 0.005	< 0.005	-----	-----	-----	-----	-----	-----	-----
2730	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2734	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2736	<0.01	<0.01	-----	<0.01	-----	<0.01	-----	<0.01	-----	-----
2737	-----	-----	-----	-----	0.0057	-----	-----	-----	-----	-----
2741	<0.005	<0.005	<0.005	<0.005	0.0058	<0.005	<0.005	<0.005	<0.005	<0.005

Lab	BBP	DBP	DNOP	DCHP	DMP	DNHP	DPHP	DNPP	DUP	DPRP
2774	0	0	0	0	< 0,0050	0	0	0	0	0
2787	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2805	ND	ND	ND	ND	-----	ND	-----	ND	-----	-----
2816	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2821	<0,02	<0,02	<0,05	-----	<0,05	<0,02	-----	<0,05	<0,05	<0,02
2824	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2826	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2827	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.
2829	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2835	-----	-----	-----	-----	0.018250	-----	-----	-----	-----	-----
2841	0	0.00056	-----	0	0.00321	-----	-----	-----	-----	0.00048
2855	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2858	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d
2863	-----	< 0,001	-----	-----	-----	-----	-----	-----	-----	-----
2864	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2867	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2879	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2884	N.D	N.D	-----	-----	-----	-----	-----	-----	-----	-----
2888	-----	-----	-----	-----	0.00558	-----	-----	-----	-----	-----
2892	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	-----	<0.0100
3116	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3118	nd	nd	nd	nd	Nd	nd	nd	nd	nd	nd
3122	< 0.0025	< 0.0025	< 0.0025	< 0.0025	-----	-----	-----	< 0.0025	-----	-----
3146	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3150	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005
3153	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3154	-----	-----	-----	-----	0.005	-----	-----	-----	-----	-----
3160	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3163	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3166	<0.002	<0.002	<0.05	-----	0.00323	-----	-----	-----	-----	-----
3172	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3176	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3182	<0.0090	<0.0090	<0.0090	<0.0090	0.0094	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090
3185	<0.0100	<0.0100	<0.0100	<0.0100	-----	<0.0100	<0.0100	<0.0100	-----	-----
3191	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
3192	<0,01	<0,01	<0,01	-----	-----	-----	<0,01	-----	-----	-----
3197	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3209	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3210	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-----	<0.002	<0.002	-----
3213	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3214	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3218	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3225	<0.01	<0.01	NA	<0.01	NA	<0.01	NA	NA	NA	NA
3228	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3237	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3238	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3239	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3243	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
3248	-----	-----	-----	-----	0.007	-----	-----	-----	-----	-----
3250	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
8005	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
8006	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
8007	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
8020	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
8021	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

APPENDIX 3
Analytical details

Lab	ISO17025 accredited	sample grinded or cut	final particle size	sample intake (g)	extraction solvent	extraction time (min)	extraction temp (°C)
110	Yes	Further Cut	2x2x2mm	0.15	THF/ACN&THF/Hexane	120	Room temp
210	No	Used as received					
230	Yes	Further Cut		0.1	THF	60	60
330	No	Used as received		0.55	THF/Hexane	1 h	60
339	No	Used as received	4x14 mm/2x2 mm	0.5	THF	60	60
348	No	---		0.1	Tetrahydrofuran	180	60±5
362	No	Used as received		1.5	Chloroform	60	50
523	Yes	Further Cut	4 x 4 mm	0.3	THF/Hexane	60	30
551	Yes	Further Cut		0.1	Tetrahydrofuran	60	60
623	Yes	Further Cut	2 mm x 2 mm	0.1	THF	60	60
632	Yes	Further Cut	2x2x2mm or less	0.05	THF	65	60
658	Yes	Further Cut	1x1x1mm	0.3	THF/Hexane	60	60
826	No	Used as received		0.3	THF	60	40
840	Yes	Further Cut	2x2mm	0.2	THF/Hexane	150	
1051	Yes	Further Cut	5mm X 5mm	1	Dichloromethane	6 hrs	
1213	Yes	Further Cut	<2 mm	0.05	THF/Hexane (5:10)	60	Room temp
2102	Yes	Used as received		0.15	Tetrahydrofuran	30	20
2104	Yes	Used as received					
2108	Yes	Used as received			THF	60	60
2115	Yes	Used as received	0.5 cm	0.1	THF/Hexane	30	25
2121	---	---					
2129	Yes	Used as received	not determined	0,5	THF/Hexane	60	60
2132	Yes	Further Cut	2x2mm	0.5	THF:Hexane 1:1	60	Room temp
2137	Yes	Used as received		2 g	THF / MeOH		
2138	Yes	Further Grinded	<500 micrometre	0.3	THF/ ACN	60	60
2139	Yes	Used as received	0.2 ~ 0.4 cm	0.3	Methanol	60	60
2156	Yes	Further Cut	< 2.0 mm	0.5	THF	120	30
2159	Yes	Used as received	5x5 mm	0,3	THF / ACN (1:2 V/V)	60	60
2165	Yes	Further Cut	2x2mm	N.A.	N.A.	N.A.	N.A.
2170	Yes	Further Cut	2x2mm	0.0504	THF/ Hexane	30	40
2172	Yes	Further Cut	2x2mm	0.3	THF	30	40
2175	No	Used as received	--	0.3	THF	60	40
2182	Yes	Further Cut	2x2mm	0.05	THF	2.5 hrs	Room temp
2184	No	Used as received	N.A.	N.A.	N.A.	N.A.	N.A.
2190	No	Further Cut	2 mm	1	Dichlorométhane	6 hrs	
2201	Yes	Further Cut	<2x2mm.	0.5	THF/Hexane	2 hrs	Room temp
2202	Yes	Used as received	Used as received	0.5	THF/Hexane	8 hr	Room temp
2213	Yes	Further Cut	< 5 mm	0.3	THF/Hexane	60	60
2216	Yes	Further Grinded	<= 1 mm	0.05	THF/Hexane	2.5 hrs	Room temp
2217	Yes	Used as received	as received	0.3	THF/Hexane	60	60
2218	Yes	Further Cut	2-3mm	0.05	THF/Hexane	30	
2222	No	Used as received		1.5	THF/Isooctan	1 h	40
2223	Yes	Used as received		0.5	Acetone	8 hrs	Room temp
2230	Yes	Used as received	2x2mm	0.3	THF	30	40
2232	Yes	Further Cut	2x3mm	0.3029	THF/ACN	50	40
2236	Yes	Further Cut	2x2mm	0.05	THF/Hexane	90	70
2242	Yes	Further Cut	<1 mm	0.05	THF	2 hrs	25
2247	Yes	Further Cut	<2mm	0.3	THF/Hexane	60	60.0
2250	Yes	Used as received	4x4 mm	0.3	THF/ACN	60	60
2255	Yes	Further Cut	small as possible	0.3	THF/Hexane	60	60
2256	Yes	Further Cut	2x2mm	0.2	DCM	60	60
2258	Yes	Further Cut	2x2mm	0.3	THF/ACN	60	40
2265	Yes	Further Cut	2mm	0.3	THF/Hexane	60	60
2266	Yes	Further Cut	0.5 mm	2	ether diethylique	2h45	100
2267	No	Further Grinded		0.1	Hexaan+THF	120	80
2272	Yes	Further Cut	0.2*0.2cm	0.3	THF/Hexane	60	60
2284	Yes	Further Cut	0.3*0.3	0.3	THF/Hexane	60	60
2288	Yes	Further Grinded	powder	0.1	THF	1 h	room temp
2289	Yes	Further Cut	2x2mm	1.0	dichloromethane	60	60
2290	Yes	---					
2293	Yes	Further Cut	2x2mm	0.05	THF/Hexane	120	room temp
2295	Yes	Further Cut	No	100 mg	THF/Hexane	120	room temp
2301	Yes	Used as received	5x5mm	0.3	THF	60	40
2310	Yes	Further Cut	<3 mm	0.1	THF/Hexane	60	60
2311	Yes	Further Cut	<2mm	0.1	THF/Hexane	60	60
2313	Yes	Further Cut	3x3mm	0.5	THF/Hexane	60	60
2314	Yes	Further Cut	3x3mm	0.1	THF/Hexane	60	60
2316	Yes	Further Cut	1x1x1mm	0.6	THF/ACN	60	60

Lab	ISO17025 accredited	sample grinded or cut	final particle size	sample intake (g)	extraction solvent	extraction time (min)	extraction temp (°C)
2330	Yes	Further Cut	2x2mm	0.05	THF/Hexane	30	40
2347	Yes	---					
2350	Yes	Further Cut	2x2mm	0.5	THF/ACN	1 h	60
2352	Yes	Further Cut	2x2x2mm	0.5	THF/Hexane	30	Room temp
2353	Yes	Used as received	5x5mm	1	N-HEXANE	8 hrs	--
2355	Yes	Further Cut	2x2x2mm	0.3	THF/ACN DEE/Hexane	60 / 16 hrs	60
2357	Yes	Further Cut	2x2x2mm	0.1	THF	60	60
2358	Yes	Used as received	5x5mm	0.05	THF	2 hrs	Ambient
2363	Yes	Further Cut	2x2mm	0.1	THF	60	60
2365	Yes	Further Cut	2x2mm	0.1	THF/Hexane	60	60
2366	Yes	Further Cut	2x2x2mm	0.1	THF/Hexane	60	60
2369	Yes	Further Cut	2x2x2mm	0.5	THF	60	60
2370	Yes	Used as received	< 5 mm	0.5	THF/Hexane	30	Room temp
2372	Yes	Used as received	2~4 mm	1.0	Ether	30	140
2374	Yes	Further Cut	2x2mm	0.1	THF/Hexane	60	60
2375	Yes	Further Cut	2x2mm	0,5	THF/Hexane	30	Room temp
2378	Yes	Further Cut	2x2x2mm	2	diethyl ether (DEE)	6 hrs	40
2379	Yes	Used as received	2x2mm	0.5	Hexane	6 hrs	
2380	Yes	Used as received	2X2mm	0.1	THF	60	60
2381	Yes	Further Grinded	very small size.	0.1.	THF/Hexane	60	60
2382	Yes	Used as received	2x2mm	0.3	THF/Hexane	60	60
2384	Yes	Further Grinded	<500um	0.3	THF	60	
2386	Yes	Used as received	5x5mm	0,5	THF/Hexane	60	60
2387	Yes	Further Cut		0.3	THF/ACN	60	60
2390	Yes	Further Cut	2x2 mm	0.5	THF/Hexane	60	60
2410	Yes	Used as received	2 mm	0.5	THF/Hexane	60	Room temp
2415	Yes	Further Cut	NA	0.15	THF/Hexane	60	60
2425	Yes	Further Cut	2x2mm	0.30	THF/Hexane	60±5	60± 5
2426	---	---					
2429	Yes	Further Cut	2x2mm	0.05	THF/Hexane	1 h	60
2431	Yes	Used as received		0.05	THF/Hexane	150	Room temp
2438	---	---					
2442	Yes	Further Cut	1.98 mm	0.1	THF	30	40
2453	Yes	Further Cut	±2 mm	0.065/0.3	THF/Hexane	60	60
2459	Yes	Further Cut	0.5x0.5mm	0.5	THF/Hexane (1:3)	60	60
2460	Yes	Further Cut	2x2 mm	0.0474	THF/Hexane	45	22
2462	---	---					
2467	Yes	Further Cut	2x2mm	0.5	THF/Hexane	1 h	60
2475	Yes	Used as received		0.1	toluene	60	60
2476	---	---					
2482	Yes	Used as received		0.5	THF	60	60
2486	Yes	Further Cut	2x2mm	0.3	THF/ACN	120	40
2488	No	Used as received					
2492	Yes	Used as received	0.5-1.0 cm	0.3	THF	60	60
2495	Yes	Used as received		0.15-0.5	THF	60	60
2497	Yes	Used as received		0.1	THF	60	60
2500	Yes	Used as received	2x2mm	0.3	THF/ACN	2 hrs	40
2503	---	---					
2504	Yes	Further Cut	2x2mm	0.05	THF/Hexane	30	Room temp
2507	Yes	Further Grinded	< 0.2 mm	0.05	THF/Hexane	30	35
2510	No	Used as received		0.05	THF/ACN	60	40
2511	Yes	Used as received	2mm-4mm	150	THF/ACN	1 h	ambient
2514	---	---					
2522	Yes	Further Cut	< 2mm	0.05	THF	150	Room temp
2529	No	Used as received	N/A	0.0500	THF/ACN	2.5 hrs	Room temp
2538	---	---					
2549	Yes	Further Cut	----	0.30	THF/Hexane	60	60
2553	Yes	Further Cut	2x2mm	0.3	THF/ACN	60	40
2560	Yes	Further Cut	2x2mm	0.5	THF/Hexane	60	60
2563	Yes	Used as received		0.3	THF	60	60
2567	Yes	Further Cut	2x2mm	--	THF/Hexane	30	40
2569	Yes	Further Cut	<2mm	0.1	THF/Hexane	30	Room temp
2572	---	---					
2582	Yes	Further Cut	< 5mm	0.5	THF	60	60
2590	Yes	Used as received		0.3	THF/Hexane	30	-
2591	Yes	Further Cut		0.1	THF	2 hrs	
2629	Yes	Used as received		0.1	THF/ACN	60	40
2641	Yes	Further Cut	<2.0mm	0.1	THF	30	25
2642	Yes	Further Cut	2mm	0.05	THF/Hexane	30	
2665	---	---					

Lab	ISO17025 accredited	sample grinded or cut	final particle size	sample intake (g)	extraction solvent	extraction time (min)	extraction temp (°C)
2668	Yes	Further Cut	2mm	0.1	THF/Hexane	60	60
2672	Yes	Further Cut	1-2 mm	0.5	Toluene	60	60
2674	Yes	Further Cut	3x3mm	0.5	THF	2 hrs	60
2678	---	---					
2705	---	---					
2720	Yes	Further Cut	2x2mm	0.05	THF/Hexane	60	60
2722	Yes	Further Cut	2x2mm	0.15	THF		
2728	Yes	Further Cut	2mm	1	n-Hexane	360	--
2730	No	Further Cut		0.5	THF	60	60
2734	---	---					
2736	Yes	Further Cut	2x2mm	0.3	THF	1 h	
2737	Yes	Further Cut	3x3mm	0.3	THF/Hexane	60	60
2741	Yes	Further Cut	2x2mm	0.5	THF	60	60
2774	Yes	Used as received	as received	0.3	THF/ACN	30	40
2787	Yes	Further Cut		0.05	THF/Hexane	30	Room temp
2805	Yes	Used as received	<2mm	0.1	THF	120	25±5
2816	---	---					
2821	Yes	Used as received	1-2mm	0.5	toluene	1 h	60
2824	---	---					
2826	Yes	Further Cut	2x2mm		THF	30	Room temp
2827	Yes	Used as received	NA	0.3	THF/Hexane	90	60
2829	No	Further Cut	2x2mm	0.05	THF	30	60
2835	Yes	Further Cut	< 1mm	0.5	Methylene Chloride	15	100
2841	Yes	Further Cut	1 - 3 mm	0.5	Ethylacetate : n-Hexane	4320 min	40
2855	Yes	Further Grinded	10 micron	1.5	Cyclohexane:Isopropanol	60	135
2858	Yes	Used as received	n/a	0.30	THF/Hexane	60	60
2863	No	Further Cut		0.5	Dichloromethane	60	60
2864	Yes	Used as received		0.05	THF/Hexane	1 h	60
2867	Yes	Used as received	3mm / as received	0.05	THF/Hexane	30	20-25
2879	Yes	Used as received	Not cut	0.1-0.2	THF/Hexane	60	Room temp
2884	Yes	Used as received	as received	0.3	THF/ACN	60	Room temp
2888	No	Used as received	as received	0.5	THF/Methanol	60	22
2892	Yes	Used as received	2x2mm	0.5	THF/Hexane	30	40
3100	Yes	Further Cut	2x3mm	0.0524	Dichloromethane	60	60
3116	Yes	Used as received	5x5mm	2	Diethylether	360	
3118	Yes	Further Cut	2x2mm	0.05	THF	30	Room temp
3122	---	---					
3146	Yes	Used as received		0.5	THF/ACN	60	70
3150	Yes	Used as received		0.3	THF/Hexane	30	Room temp
3153	Yes	Further Cut	2 mm	0.1	THF	150	Room temp
3154	Yes	Used as received		0.5	Acetone/n-hexane	60	60
3160	No	Further Cut	3x3mm	1	Acetone/n-hexane	60	50
3163	No	Further Cut	0.5 mm	0.0005 g	None	--	None
3166	Yes	Used as received		0.5	Methylene Chloride		Ambient
3172	---	---					
3176	Yes	Further Cut	3x3 mm	0.5	THF/ACN	30	Room temp
3182	Yes	Further Grinded	0.5 millimeter	0.05	THF/Hexane	2 hrs	Room temp
3185	Yes	Further Cut	2x2mm	0.1 0.1	THF/Hexane	150	NA
3191	Yes	Further Cut	< 5×5 mm	1.0	THF / dichloromethane	30 - 60	Room / 60
3192	Yes	Further Cut	2-3 mm	0,2	Diethylether	60	25
3197	Yes	Further Cut	2x2mm	0,1	THF/Hexane	60	Room temp
3209	Yes	Used as received		0.05	THF	30	Room temp
3210	Yes	Further Cut		1	Toluène	60	60
3213	Yes	Further Grinded			Hexane	360	90
3214	Yes	Further Cut	1.5x1.5mm	0.5	THF/Hexane	60	70
3218	Yes	Used as received		50mg	THF	30	Room temp
3225	Yes	Further Cut	2x2mm	0.5	THF/Hexane	60	70
3228	Yes	Further Cut	2x2mm				
3237	No	Used as received		0.1	THF/ACN	0,5 h	40
3238	---	---					
3239	Yes	Further Grinded	< 50mm	0.5	Methylene chloride	4 hrs	60
3243	---	---					
3248	Yes	Further Cut	3mm	0.05g	THF/ACN	60	Room temp
3250	Yes	Further Cut	2mm x 2mm	0.3g	THF/ACN	120	40
8005	Yes	Used as received	5mm x 5mm	1	Acetone/n-hexane	720	40
8006	---	---					
8007	---	---					
8020	Yes	Used as received	N.A.	N.A.	N.A.	N.A.	N.A.
8021	Yes	Used as received	N.A.	N.A.	N.A.	N.A.	N.A.

APPENDIX 4

Number of participating laboratories per country

9 labs in BANGLADESH
2 labs in BRAZIL
1 lab in BULGARIA
3 labs in CAMBODIA
2 labs in DENMARK
1 lab in EGYPT
10 labs in FRANCE
18 labs in GERMANY
2 labs in GUATEMALA
21 labs in HONG KONG
1 lab in HUNGARY
11 labs in INDIA
4 labs in INDONESIA
1 lab in IRELAND
7 labs in ITALY
1 lab in JAPAN
1 lab in LUXEMBOURG
3 labs in MALAYSIA
1 lab in MAURITIUS
2 labs in MEXICO
1 lab in MOROCCO
34 labs in P.R. of CHINA
3 labs in PAKISTAN
1 lab in PHILIPPINES
1 lab in POLAND
1 lab in PORTUGAL
1 lab in ROMANIA
1 lab in SERBIA
6 labs in SINGAPORE
10 labs in SOUTH KOREA
5 labs in SPAIN
2 labs in SRI LANKA
1 lab in SWITZERLAND
5 labs in TAIWAN R.O.C.
4 labs in THAILAND
3 labs in THE NETHERLANDS
2 labs in TUNISIA
7 labs in TURKEY
9 labs in U.S.A.
9 labs in VIETNAM

APPENDIX 5

Abbreviations:

C	= final test result after checking of first reported suspect test result
D(0.01)	= outlier in Dixon's outlier test
D(0.05)	= straggler in Dixon's outlier test
G(0.01)	= outlier in Grubbs' outlier test
G(0.05)	= straggler in Grubbs' outlier test
DG(0.01)	= outlier in Double Grubbs' outlier test
DG(0.05)	= straggler in Double Grubbs' outlier test
R(0.01)	= outlier in Rosner's outlier test
R(0.05)	= straggler in Rosner's outlier test
E	= possibly an error in calculations
W	= test result withdrawn on request of participant
ex	= test result excluded from statistical evaluation
NA	= not applicable
n.e.	= not evaluated
n.d.	= not detected

Literature:

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19 EC I.03.101, JRS Ispra, Summary Risk Assessment Report DINP (2003)
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23 Bernard Rosner, Percentage Points for a Generalized ESD Many-Outlier Procedure, T*echnometrics*, 25(2), 165-172, (1983)
24 Memo 1701: precision data of Phthalates in plastic, www.iisnl.com, News and Report page (July 2017)