

Results of Proficiency Test
Phthalates in Polymers
May 2018

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 fairly 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, which is covered by EU directive 1907/2006 (REACH). These regulations govern conditions related to toys intended for children under 36 months of age (this group often suck or chew on toys and Phthalates migrate easily). Therefore, plastic toys are not allowed to contain either more than 0.1 %M/M of DEHP, DBP and BBP combined or more than 0.1%M/M of DINP (3 mixtures, ref. 19), DIDP (2 mixtures, ref. 20) and DNOP combined.

Since 2004, the Institute of Interlaboratory Studies organizes a proficiency scheme for Phthalates in Polymer. During the annual proficiency testing program of 2017/2018, it was decided to continue the proficiency test for the analysis of Phthalates in plastics.

In this interlaboratory study, 193 laboratories in 37 different countries registered for participation. See appendix 4 for the number of participating laboratories per country. In this report, the results of the 2018 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 organiser of this proficiency test (PT). Sample analyses for fit-for-use and homogeneity testing were subcontracted to an ISO/IEC 17025 accredited laboratory. It was decided to send two different plastic samples, both PVC. One sample contained 3 grams of little sea green squares, labelled #18560, and the other sample contained 3 grams of red squares, labelled #18561. 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/IEC 17043:2010 (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 organisation 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 March 2017 (iis-protocol, version 3.4). 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 sample was a sea green coloured PVC, enriched with DBP, DNOP, DCHP and DNPP, especially prepared for iis. Subsamples with 3 grams material (PVC squares) were prepared and labelled #18560. The homogeneity of the subsamples #18560 was checked by determination of all added Phthalates on 8 stratified randomly selected subsamples.

	DBP in %M/M	DNOP in %M/M	DCHP in %M/M	DNPP in %M/M
sample #18560-1	0.1876	0.1023	0.1307	0.0479
sample #18560-2	0.2025	0.1058	0.1352	0.0502
sample #18560-3	0.1913	0.1030	0.1222	0.0508
sample #18560-4	0.1961	0.1023	0.1339	0.0515
sample #18560-5	0.1898	0.0988	0.1267	0.0489
sample #18560-6	0.1884	0.1004	0.1275	0.0474
sample #18560-7	0.1964	0.1029	0.1322	0.0483
sample #18560-8	0.1846	0.1092	0.1297	0.0506

Table 1: homogeneity test results of subsamples #18560

From the above test results the repeatabilities were calculated and compared with 0.3 times the estimated reproducibility calculated from the uncertainties (relative in %) of the PTs conducted from 2010-2016 (lit. 24), and in agreement with the procedure of ISO 13528, Annex B2 in the next table:

	DBP in %M/M	DNOP in %M/M	DCHP in %M/M	DNPP in %M/M
r (observed)	0.0164	0.0090	0.0118	0.0043
reference method	iis-memo*)	iis-memo*)	iis-memo*)	iis-memo*)
0.3 * R (ref. method)	0.0258	0.0139	0.0174	0.0066

Table 2: evaluation of the repeatabilities of subsamples #18560

*) see lit. 24

The second sample was a red coloured PVC, enriched with BBP, DEHP, DINP and DEP, also especially prepared for iis. Subsamples with 3 grams material (PVC granulate) were prepared and labelled #18561. The homogeneity of the subsamples #18561 was checked by determination of all added Phthalates on 8 stratified randomly selected subsamples.

	BBP in %M/M	DEHP in %M/M	DINP in %M/M	DEP in %M/M
sample #18561-1	0.0978	0.0668	0.2434	0.1069
sample #18561-2	0.0981	0.0664	0.2568	0.1115
sample #18561-3	0.0947	0.0631	0.2477	0.1070
sample #18561-4	0.1010	0.0656	0.2664	0.1107
sample #18561-5	0.0947	0.0617	0.2621	0.1098
sample #18561-6	0.0977	0.0663	0.2429	0.1119
sample #18561-7	0.1033	0.0652	0.2654	0.1075
sample #18561-8	0.0965	0.0633	0.2561	0.1044

Table 3: homogeneity test results of subsamples #18561

From the above test results the repeatabilities were calculated and compared with 0.3 times the estimated reproducibility calculated from the uncertainties (relative in %) of the PTs conducted from 2010-2016 (lit. 24), and in agreement with the procedure of ISO 13528, Annex B2 in the next table:

	BBP in %M/M	DEHP in %M/M	DINP in %M/M	DEP in %M/M
r (observed)	0.0083	0.0052	0.0265	0.0074
reference method	iis-memo*)	iis-memo*)	iis-memo*)	iis-memo*)
0.3 * R (ref. method)	0.0132	0.0087	0.0343	0.0146

Table 4: evaluation of repeatabilities of subsamples #18561

*) see lit. 24

The calculated repeatabilities were all in agreement with the respective target precision data. Therefore, the homogeneities of subsamples #18560 and #18561 were assumed.

To each of the participating laboratories, one sample labelled #18560 and one sample labelled #18561 were sent on April 18, 2018.

2.5 ANALYSES

The participants were requested to determine on both samples #18560 and #18561 fourteen individual Phthalates. It was also requested to report if the laboratory was accredited for the determined component. Also some method details were requested to be reported.

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 more, 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 test results cannot be used for meaningful statistical calculations.

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 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 determination in appendix 1 of this report. The laboratories are represented by the 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 reanalyses). Additional or corrected test results are used for the data analysis and the original results are placed under 'Remarks' in the result tables in appendix 1. 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 organisation 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 March 2017 (iis-protocol, version 3.4).

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.

In accordance to ISO 5725 the original test results per determination were submitted subsequently 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 visualise 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 analysis 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 standard. 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 spread of 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. In some cases, a reproducibility of based on former iis proficiency tests could be 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-use.

The z-scores were calculated according to:

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

The $Z_{(\text{target})}$ 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. 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. Three participants reported after the final reporting date and five participants did not report any test results at all. Finally, 188 laboratories reported 1289 numerical results. Observed were 60 statistically outlying test results, which is 4.7% 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 Gaussian 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 methods are also in the tables together with the original data. 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 phthalates 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*”. After having used 31.5% as target reproducibility in the 2015 and 2016 PTs, 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) multiplied by 2.8. This was used for the evaluation of the test results in this PT.

Sample #18560

DBP: The determination of DBP may not be problematic. Three statistical outliers were observed and one other test result was excluded. However, the calculated reproducibility after rejection of the suspect data is in agreement with the target reproducibility as derived from the reproducibilities observed in the iis PTs (lit. 24).

DNOP: The determination of DNOP may be problematic at the level of 0.09%M/M. Twelve statistical outliers were observed. The calculated reproducibility after rejection of the statistical outliers is not in agreement with the target reproducibility as derived from the reproducibilities observed in the iis PTs (lit. 24).

DCHP: The determination of DCHP may not be problematic. Ten statistical outliers were detected. However, the calculated reproducibility after rejection of the statistical outliers is in agreement with the target reproducibility as derived from the reproducibilities observed in the iis PTs (lit. 24).

DNPP: The determination of DNPP may not be problematic. Three statistical outliers were detected. However, the calculated reproducibility after rejection of the statistical outliers is in agreement with the target reproducibility as derived from the reproducibilities observed in the iis PTs (lit. 24).

For BBP, DEHP, DIDP, DINP, DEP, DMP, DNHP, DIBP, DPHP and DUP the the majority of the participants agreed on a concentration near or below the limit of detection. Therefore, no significant conclusions were drawn for these Phthalates (see appendix 2).

Sample #18561

BBP: The determination of BBP may not be problematic. Six statistical outliers were observed. However, the calculated reproducibility after rejection of the statistical outliers is in agreement with the target reproducibility as derived from the reproducibilities observed in the iis PTs (lit. 24).

DEHP: The determination of DEHP may not be problematic. Five statistical outliers were observed. However, the calculated reproducibility after rejection of the statistical outliers is in agreement with the target reproducibility as derived from the reproducibilities observed in the iis PTs (lit. 24).

DINP: The determination of DINP may be problematic at the level of 0.23%M/M. Six statistical outliers were observed. The calculated reproducibility after rejection of the statistical outliers is not in agreement with the target reproducibility as derived from the reproducibilities observed in the iis PTs (lit. 24).

DEP: The determination of DEP may not be problematic. Fifteen statistical outliers were observed. However, the calculated reproducibility after rejection of the statistical outliers is in agreement with the target reproducibility as derived from the reproducibilities observed in the iis PTs (lit. 24).

For DBP, DIDP, DNOP, DCHP, DMP, DNHP, DIBP, DPHP, DNPP and DUP the group of participants agreed on a concentration near or below the limit of detection. Therefore, no significant conclusions were drawn for these Phthalates (see appendix 2).

4.2 PERFORMANCE EVALUATION FOR THE GROUP OF LABORATORIES

A comparison has been made between the reproducibilities as found for the group of participating laboratories and the target reproducibility as derived from the reproducibilities observed in the iis PTs (lit. 24) in the next tables:

Component	unit	n	average	2.8 * sd	R (target)
DBP	%M/M	183	0.187	0.070	0.084
DNOP	%M/M	112	0.090	0.048	0.040
DCHP	%M/M	143	0.124	0.039	0.056
DNPP	%M/M	149	0.051	0.020	0.023

Table 5: reproducibilities of tests on sample #18560

Component	unit	n	average	2.8 * sd	R (target)
BBP	%M/M	180	0.097	0.031	0.044
DEHP	%M/M	179	0.080	0.029	0.036
DINP	%M/M	159	0.234	0.146	0.105
DEP	%M/M	123	0.101	0.022	0.045

Table 6: reproducibilities of tests on sample #18561

Without further 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 MAY 2018 WITH PREVIOUS PTS

	May 2018	May 2017	May 2016	May 2015	May 2014
Number of reporting labs	188	186	170	184	169
Number of results reported	1289	1339	1258	1014	1226
Statistical outliers	60	18	66	43	97
Percentage outliers	4.7%	1.3%	5.2%	4.2%	7.9%

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 on the next page.

	May 2018	May 2017	May 2016	May 2015	May 2014	April 2013	before 2012	RSDR iis ¹⁾
BBP	11	--	13	--	12	13	11 -15	16
DEHP	13	17 – 29	13 – 13	13	17 – 19	--	13 – 18	16
DBP	13	16 – 17	12	15	17	14 – 74 ²⁾	11 – 17	16
DIDP	--	--	37 ³⁾	17	20	19 – 57 ²⁾	15	16
DINP ⁴⁾	22	31	19	--	20	20	12 - 26	16
DNOP	19	--	18	23	21	--	15 - 20	16
DCHP	11	--	--	16	--	--	--	16
DEP	8	--	--	13	--	--	--	16
DMP	--	--	12	--	--	--	--	16
DNHP	--	17	--	--	--	--	--	16
DiBP	--	--	--	14	--	--	--	16
DNPP	14	16	--	15	--	--	--	16
DHP	--	--	--	--	--	--	11	16

Table 8: comparison of uncertainties (relative in %) of Phthalates in this PT and previous PTs

1) see memo: precision data of Phthalates in plastic (ref. 24)

2) sample with 37% DINP present

3) consensus value near to or below the detection limit

4) 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 Polymer. The majority (86%) of the participants reported to be ISO/IEC 17025 accredited for the determination of Phthalates in Polymer. As this is the majority of the group no separate statistical analysis has been performed.

About 60% of the laboratories reported to have used CPSC-CH-C1001-09.3/09.4 as test method and about 10% of the laboratories reported to have used ISO14389 as test method. Both test methods are based on THF extraction. About 20% 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 of the laboratories reported to have used THF as extraction solvent.

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 #18560 was already used in a previous PT, as sample #15066 in iis15P03. The averages found in both PTs for this sample are similar. The calculated reproducibility for the components in this sample improved in the 2018 PT compared to the 2015 PT.

	Sample #18560				Sample #15066			
	unit	n	average	R(calc)	unit	n	average	R(calc)
DBP	mg/kg	183	0.187	0.070	mg/kg	174	0.182	0.075
DNOP	mg/kg	112	0.090	0.048	mg/kg	137	0.089	0.059
DCHP	mg/kg	143	0.124	0.039	mg/kg	41	0.125	0.056
DNPP	mg/kg	149	0.051	0.020	mg/kg	59	0.052	0.022

Table 9: comparison of sample #16570 with #18570

6 CONCLUSION

The majority of the group identified all added Phthalates correctly: #18560 contained DBP, DNOP, DCHP and DNPP and sample #18561 contained BBP, DEHP, DINP and DEP.

Plastic toys are not allowed to contain either more than 0.1 %M/M of DEHP, DBP and BBP combined or more than 0.1%M/M of DINP (3 mixtures, ref. 19), DIDP (2 mixtures, ref 20) and DNOP combined (see §1 Introduction).

When the results of this interlaboratory study were compared to the above regulations, it is noticed that the majority of the reporting laboratories would reject sample #18560 for containing too much DEHP+DBP+BBP in total. Also sample #18561 would be rejected by the majority of the reporting laboratories for containing too much DEHP+DBP+BBP in total and/or too much DINP+DIDP+DNOP in total.

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

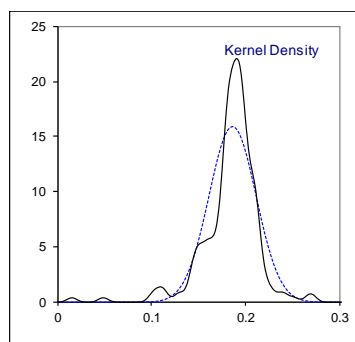
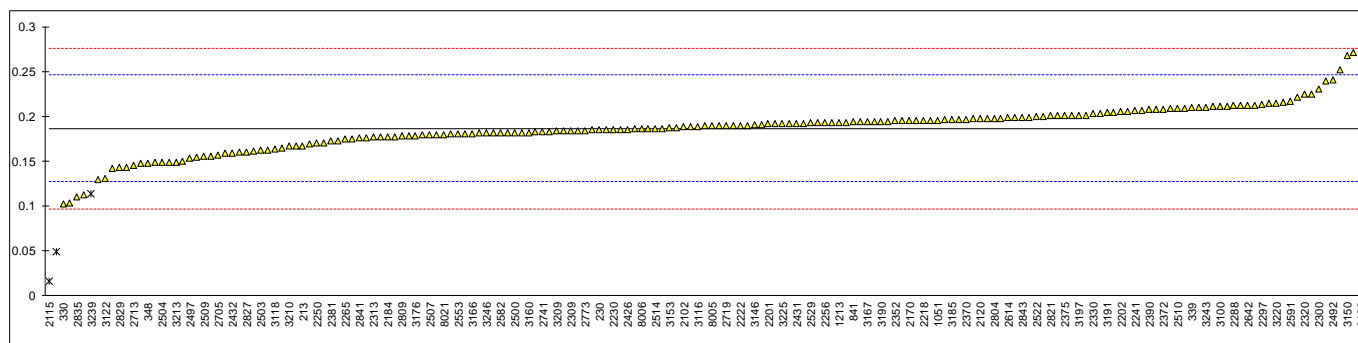
Therefore, participation on a regular basis in this scheme could be helpful to improve the performance and thus increase of the quality of the analytical results.

APPENDIX 1**Determination of DBP – Dibutylphthalate on sample #18560; results in %M/M**

lab	method	value	mark	z(targ)	lab	method	value	mark	z(targ)
110	CPSC-CH-C1001-09.3	0.1486		-1.27	2372		0.2081		0.73
213	CPSC-CH-C1001-09.3	0.167296	C	-0.64	2375	ISO14389	0.201		0.49
230	CPSC-CH-C1001-09.3	0.1845		-0.07	2378	CPSC-CH-C1001-09.4	0.2010		0.49
310	In house	0.193		0.22	2379	EN14372	0.197		0.35
330	In house	0.102		-2.83	2380	CPSC-CH-C1001-09.3	0.16683		-0.66
339	In house	0.210		0.79	2381	CPSC-CH-C1001-09.3	0.17201		-0.48
348	CPSC-CH-C1001-09.3	0.148		-1.29	2382	In house	0.19361		0.24
362	ISO14389	0.143		-1.46	2384	CPSC-CH-C1001-09.3	0.17047	C	-0.54
523	-----	-----		-----	2386	CPSC-CH-C1001-09.3	0.1627		-0.80
551	CPSC-CH-C1001-09.3	0.164622		-0.73	2389	CPSC-CH-C1001-09.3	0.2150		0.96
623	CPSC-CH-C1001-09.3	0.183		-0.12	2390	CPSC-CH-C1001-09.3	0.2080		0.72
826	IEC62321-8	0.19439		0.27	2415	CPSC-CH-C1001-09.3	0.1779		-0.29
840	ISO14389	0.194		0.25	2422	KS M1991	0.23888		1.76
841	CPSC-CH-C1001-09.3	0.19352		0.24	2425	ISO14389	0.1691		-0.58
1051	CPSC-CH-C1001-09.4	0.1957		0.31	2426	CPSC-CH-C1001-09.3	0.1855		-0.03
1213		0.1931		0.22	2431	CPSC-CH-C1001-09.3	0.1921		0.19
2102	In house	0.188		0.05	2432	ISO14389	0.1591		-0.92
2104	CPSC-CH-C1001-09.3	0.180		-0.22	2442	In house	0.142		-1.49
2115	CPSC-CH-C1001-09.3	0.0157	R(0.01)	-5.72	2453	ISO14389	0.210		0.79
2120	CPSC-CH-C1001-09.3	0.1971		0.36	2459	CPSC-CH-C1001-09.3	0.188		0.05
2129		0.208		0.72	2460	CPSC-CH-C1001-09.3	0.1921		0.19
2131	In house	0.172765		-0.46	2462	CPSC-CH-C1001-09.4	0.181		-0.18
2132	CPSC-CH-C1001-09.4	0.1963		0.33	2475	In house	0.2208		1.15
2137	CPSC	0.186		-0.02	2476		0.192025	C	0.19
2139	CPSC-CH-C1001-09.3	0.214		0.92	2489	CPSC-CH-C1001-09.3	0.1745		-0.40
2146	-----	-----		-----	2492	In house	0.2407		1.82
2159	ISO14389	0.199		0.42	2495	ISO14389	0.21272		0.88
2165	CPSC-CH-C1001-09.4	0.1861		-0.01	2497	CPSC-CH-C1001-09.3	0.1533		-1.11
2170	CPSC-CH-C1001-09.3	0.1949		0.28	2500	CPSC-CH-C1001-09.3	0.1820		-0.15
2184	ISO8124-6	0.1774		-0.30	2503	CPSC-CH-C1001-09.3	0.1623		-0.81
2190		0.161		-0.85	2504	CPSC-CH-C1001-09.4	0.149		-1.26
2201	CPSC-CH-C1001-09.3	0.1912		0.16	2507	CPSC-CH-C1001-09.3	0.179		-0.25
2202	In house	0.2050		0.62	2509	CPSC-CH-C1001-09.3	0.155		-1.05
2213	CPSC-CH-C1001-09.3	0.179		-0.25	2510	In house	0.209		0.76
2218	CPSC-CH-C1001-09.3	0.1954		0.30	2511	ISO14389	0.2053		0.63
2222	In house	0.19	C	0.12	2514	ISO14389	0.1861		-0.01
2228	CPSC-CH-C1001-09.3	0.2712		2.84	2522	CPSC-CH-C1001-09.3/4	0.200		0.45
2230	In house	0.185		-0.05	2529	CPSC-CH-C1001-09.4	0.19255		0.20
2232	In house	0.209		0.76	2532	CPSC-CH-C1001-09.3	0.1820		-0.15
2236	CPSC-CH-C1001-09.3	0.16008		-0.88	2553	In house	0.18		-0.22
2241	ISO8124-6	0.206		0.66	2561	-----	-----		-----
2242	CPSC-CH-C1001-09.3	0.2244		1.27	2566	CPSC-CH-C1001-09.3	0.1948		0.28
2250	ISO14389	0.170		-0.55	2567	CPSC-CH-C1001-09.3	0.2047		0.61
2255	-----	-----		-----	2572	CPSC-CH-C1001-09.3	0.1900		0.12
2256	CPSC-CH-C1001-09.3	0.193		0.22	2573	CPSC-CH-C1001-09.3	0.2012		0.49
2258	-----	-----		-----	2582	CPSC-CH-C1001-09.3	0.18188	C	-0.15
2265	ISO14389	0.1744		-0.40	2590	CPSC-CH-C1001-09.3	0.15409		-1.08
2267	In house	0.112	C	-2.50	2591	CPSC-CH-C1001-09.3	0.21632		1.00
2288	CPSC-CH-C1001-09.3	0.2117		0.85	2614	CPSC-CH-C1001-09.3	0.198		0.39
2290	CPSC-CH-C1001-09.3	0.1892		0.09	2622	CPSC-CH-C1001-09.4	0.2515		2.18
2293	CPSC-CH-C1001-09.3	0.150		-1.22	2642	CPSC-CH-C1001-09.3	0.2123		0.87
2297	ISO14389	0.213		0.89	2643	CPSC-CH-C1001-09.3	0.189		0.09
2300	ISO14389	0.23		1.46	2674		0.1844		-0.07
2301	In house	0.19		0.12	2678	CPSC-CH-C1001-09.3	0.209		0.76
2309	CPSC-CH-C1001-09.3	0.184		-0.08	2705	In house	0.1569		-0.99
2310	CPSC-CH-C1001-09.3	0.18392		-0.08	2713	CPSC-CH-C1001-09.3	0.1449		-1.39
2311	CPSC-CH-C1001-09.3	0.1863		-0.01	2719		0.1898		0.11
2313	ISO14389	0.1773		-0.31	2720	CPSC-CH-C1001-09.3	0.1917		0.18
2314	CPSC-CH-C1001-09.3	0.1820	C	-0.15	2722		0.1775		-0.30
2316	CPSC-CH-C1001-09.3	0.1846		-0.06	2728	In house	0.1030		-2.80
2320	EN14372	0.22416		1.26	2730	EN15777	0.049	R(0.01)	-4.61
2330	CPSC-CH-C1001-09.3	0.2029		0.55	2740		0.1803		-0.21
2347	CPSC-CH-C1001-09.3	0.1977		0.38	2741		0.1825		-0.13
2350	IEC62321-8	0.184		-0.08	2743	ISO14389	0.129427		-1.91
2352	CPSC-CH-C1001-09.4	0.1947		0.28	2773	CPSC-CH-C1001-09.3	0.184		-0.08
2353	IEC62321-8	0.21080		0.82	2774	In house	0.1477		-1.30
2355	CPSC-CH-C1001-09.3	0.201		0.49	2804	In house	0.197545		0.37
2357	CPSC-CH-C1001-09.3	0.1961		0.32	2809	CPSC-CH-C1001-09.3	0.17764		-0.30
2358	CPSC-CH-C1001-09.3	0.19730		0.36	2812	CPSC-CH-C1001-09.3	0.20		0.45
2363	CPSC-CH-C1001-09.4	0.2070		0.69	2821	In house	0.2004		0.47
2365	CPSC-CH-C1001-09.4	0.21069		0.81	2824	CPSC-CH-C1001-09.3	0.1823		-0.14
2366	CPSC-CH-C1001-09.3	0.1956		0.31	2826	CPSC-CH-C1001-09.3	0.179		-0.25
2369	CPSC-CH-C1001-09.3	0.185		-0.05	2827	In house	0.1601		-0.88
2370	IEC62321-8	0.1965		0.34	2828	CPSC-CH-C1001-09.3	0.149		-1.26

lab	method	value	mark	z(targ)	lab	method	value	mark	z(targ)
2829	CPSC-CH-C1001-09.4	0.1426		-1.47	3191	CPSC-CH-C1001-09.4	0.2040		0.59
2835	EPA3545A/8270D	0.1104239	C	-2.55	3192	In house	0.155		-1.05
2841	In house	0.17561		-0.36	3197	CPSC-CH-C1001-09.3	0.2010		0.49
2842	CPSC-CH-C1001-09.3	0.203178	C	0.56	3199	CPSC-CH-C1001-09.3	0.198		0.39
2843	ISO16181	0.198768		0.41	3200	CPSC-CH-C1001-09.3	0.1928		0.21
2845	-----	-----		-----	3209	CPSC-CH-C1001-09.3	0.1839		-0.09
3100	CPSC-CH-C1001-09.3	0.21078		0.82	3210	In house	0.16657		-0.67
3116	EN14372	0.188		0.05	3213	IEC62321-8	0.14910		-1.25
3118	CPSC-CH-C1001-09.3	0.16380		-0.76	3214	CPSC-CH-C1001-09.3	0.186817		0.01
3122	CPSC-CH-C1001-09.3	0.13		-1.89	3220	CPSC-CH-C1001-09.3	0.21424		0.93
3146	In house	0.1904		0.13	3225	CPSC-CH-C1001-09.4	0.1917		0.18
3150	CPSC-CH-C1001-09.3	0.2677		2.72	3228		0.1811		-0.18
3153	CPSC-CH-C1001-09.3	0.1867		0.01	3237	In house	0.212		0.86
3154	ISO14389	0.159		-0.92	3239	In house	0.11362	ex	-2.44
3160	ISO/TS16181	0.18204		-0.15	3243	In house	0.210		0.79
3163		0.5578	C,R(0.01)	12.45	3246	In house	0.181		-0.18
3166	In house	0.1807		-0.19	3248	In house	0.191		0.15
3167		0.1937		0.24	8005	ST2016	0.189		0.09
3172	ISO8124-6	0.1761		-0.35	8006	GB22048	0.186		-0.02
3176	CPSC-CH-C1001-09.3	0.178		-0.28	8007	CPSC-CH-C1001-09.4	0.195		0.29
3182	CPSC-CH-C1001-09.3	0.1934		0.23	8020	CPSC-CH-C1001-09.4	0.1773		-0.31
3185	CPSC-CH-C1001-09.4	0.1962		0.33	8021	ST2016	0.1792		-0.24
3190	CPSC-CH-C1001-09.3	0.1940		0.25					
normality		not OK							
n		183							
outliers		3 (+1ex)							
mean (n)		0.1865							
st.dev. (n)		0.02502							
R(calc.)		0.0701							
st.dev.(iis)		0.02983							
R(iis)		0.0835							

Lab 213 first reported: 1672.96
 Lab 2222 first reported as BBP
 Lab 2267 first reported: 0.052
 Lab 2314 first reported: 1820.4
 Lab 2384 first reported: 1704.7435
 Lab 2476 reported: 1920.25%M/M (probably a unit error)
 Lab 2582 first reported: 1691.3
 Lab 2835 first reported: 0.0670677
 Lab 2842 first reported as sample #18561
 Lab 3163 first reported: 0.0002
 Lab 3239: test result excluded, for six out of seven positive reported test results are outliers.



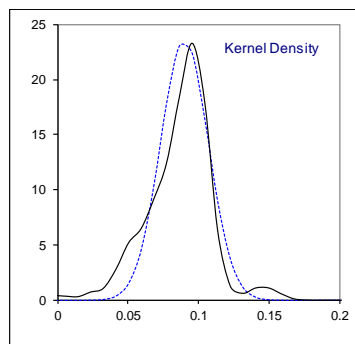
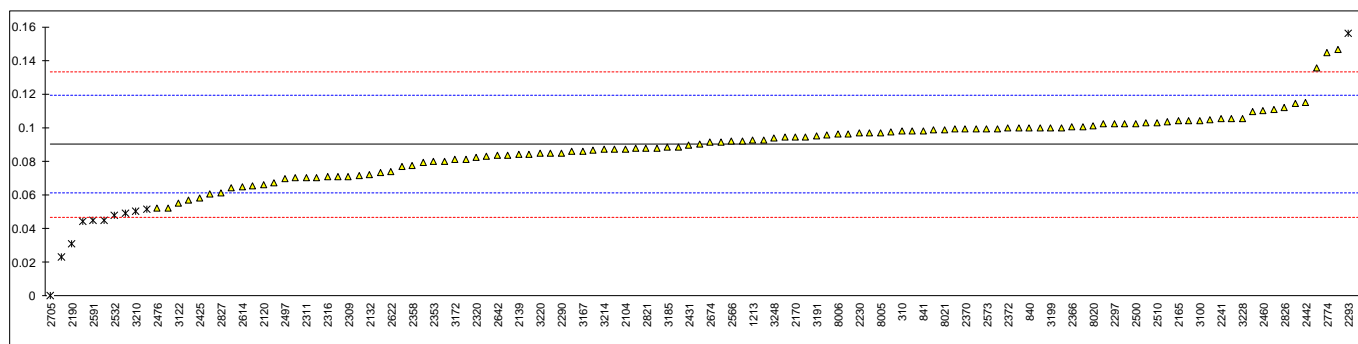
Determination of DNOP – Di-n-octylphthalate on sample #18560; results in %M/M

lab	method	value	mark	z(targ)	lab	method	value	mark	z(targ)
110	CPSC-CH-C1001-09.3	ND		----	2372		0.0998		0.67
213		----		----	2375		----		----
230		----		----	2378	CPSC-CH-C1001-09.4	0.1028		0.88
310	In house	0.098		0.55	2379	EN14372	Not det.		----
330	In house	<0.01	f-?	<-5.55	2380		----		----
339	In house	0.0228	R(0.05)	-4.67	2381		----		----
348	CPSC-CH-C1001-09.3	< 0.005	f-?	<-5.90	2382	In house	0.09921		0.63
362		----		----	2384	CPSC-CH-C1001-09.3	0.05218	C	-2.63
523		----		----	2386	CPSC-CH-C1001-09.3	0.0843		-0.40
551		----		----	2389		----		----
623	CPSC-CH-C1001-09.3	n.d.		----	2390	CPSC-CH-C1001-09.3	ND		----
826		----		----	2415		----		----
840	ISO14389	0.100		0.69	2422	KS M1991	0.13532		3.13
841	CPSC-CH-C1001-09.3	0.09804		0.55	2425	ISO14389	0.0579		-2.23
1051		----		----	2426	CPSC-CH-C1001-09.3	0.0707		-1.35
1213		0.0927		0.18	2431	CPSC-CH-C1001-09.3	0.0894		-0.05
2102	In house	0.067	C	-1.60	2432	ISO14389	0.0969		0.47
2104	CPSC-CH-C1001-09.3	0.087		-0.22	2442	In house	0.115		1.73
2115		----		----	2453		----		----
2120	CPSC-CH-C1001-09.3	0.0662		-1.66	2459	CPSC-CH-C1001-09.3	0.087	C	-0.22
2129		0.102		0.82	2460	CPSC-CH-C1001-09.3	0.1103		1.40
2131		----		----	2462	CPSC-CH-C1001-09.4	0.083		-0.49
2132	CPSC-CH-C1001-09.4	0.0718		-1.27	2475	In house	0.1051		1.04
2137		----		----	2476		0.052030	C	-2.64
2139	CPSC-CH-C1001-09.3	0.084		-0.42	2489	CPSC-CH-C1001-09.3	0.0444	R(0.05)	-3.17
2146		----		----	2492	In house	0.0962		0.42
2159	ISO14389	<0.005	f-?	<-5.90	2495	ISO14389	0.05136	R(0.05)	-2.69
2165	CPSC-CH-C1001-09.4	0.1038		0.95	2497	CPSC-CH-C1001-09.3	0.0699		-1.40
2170	CPSC-CH-C1001-09.3	0.0947		0.32	2500	CPSC-CH-C1001-09.3	0.1025		0.86
2184	ISO8124-6	0.0945		0.30	2503	CPSC-CH-C1001-09.3	0.1464		3.90
2190		0.031	R(0.05)	-4.10	2504	CPSC-CH-C1001-09.4	n.d.		----
2201	CPSC-CH-C1001-09.3	0.1004		0.71	2507		----		----
2202		----		----	2509		----		----
2213	CPSC-CH-C1001-09.3	0.08		-0.70	2510	In house	0.103		0.89
2218		----		----	2511	ISO14389	0.0731		-1.18
2222	In house	< 0.01	f-?	<-5.55	2514		----		----
2228	CPSC-CH-C1001-09.3	ND		----	2522		----		----
2230	In house	0.0967		0.46	2529		----		----
2232		----		----	2532	CPSC-CH-C1001-09.3	0.0480	R(0.05)	-2.92
2236	CPSC-CH-C1001-09.3	0.04921	R(0.05)	-2.84	2553	In house	0.09		-0.01
2241	ISO8124-6	0.105		1.03	2561		----		----
2242		----		----	2566	CPSC-CH-C1001-09.3	0.0919		0.12
2250	ISO14389	0.0947		0.32	2567	CPSC-CH-C1001-09.3	0.0849		-0.36
2255		----		----	2572	CPSC-CH-C1001-09.3	0.0860		-0.29
2256	CPSC-CH-C1001-09.3	0.088		-0.15	2573	CPSC-CH-C1001-09.3	0.0993		0.64
2258		----		----	2582		----		----
2265	ISO14389	0.0916		0.10	2590		----		----
2267		----		----	2591	CPSC-CH-C1001-09.3	0.04476	R(0.05)	-3.15
2288	CPSC-CH-C1001-09.3	0.09845		0.58	2614	CPSC-CH-C1001-09.3	0.065		-1.74
2290	CPSC-CH-C1001-09.3	0.0850		-0.36	2622	CPSC-CH-C1001-09.4	0.0738		-1.13
2293	CPSC-CH-C1001-09.3	0.156	R(0.05)	4.57	2642	CPSC-CH-C1001-09.3	0.08343		-0.46
2297	ISO14389	0.102		0.82	2643		----		----
2300	ISO14389	nd		----	2674		0.0912		0.07
2301		----		----	2678	CPSC-CH-C1001-09.3	n.d		----
2309	CPSC-CH-C1001-09.3	0.071		-1.33	2705	In house	0	R(0.05)	-6.25
2310	CPSC-CH-C1001-09.3	0.06424		-1.79	2713	CPSC-CH-C1001-09.3	0.0771		-0.90
2311	CPSC-CH-C1001-09.3	0.0702		-1.38	2719		----		----
2313	ISO14389	0.0702		-1.38	2720	CPSC-CH-C1001-09.3	0.0928		0.19
2314	CPSC-CH-C1001-09.3	0.0652	C	-1.73	2722		----		----
2316	CPSC-CH-C1001-09.3	0.0707		-1.35	2728	In house	ND		----
2320	EN14372	0.08222		-0.55	2730		----		----
2330	CPSC-CH-C1001-09.3	ND		----	2740		0.0999		0.68
2347	CPSC-CH-C1001-09.3	0.1093		1.33	2741		0.1105		1.41
2350		----		----	2743		----		----
2352	CPSC-CH-C1001-09.4	0.1001		0.69	2773	CPSC-CH-C1001-09.3	0.070		-1.40
2353	IEC62321-8	0.079842		-0.71	2774	In house	0.1445		3.77
2355	CPSC-CH-C1001-09.3	0.100		0.69	2804	In house	0.09723		0.49
2357	CPSC-CH-C1001-09.3	0.1036		0.93	2809		----		----
2358	CPSC-CH-C1001-09.3	0.077524		-0.87	2812		----		----
2363	CPSC-CH-C1001-09.4	0.1020		0.82	2821	In house	0.0878		-0.16
2365	CPSC-CH-C1001-09.4	0.09536		0.36	2824	CPSC-CH-C1001-09.3	0.0712		-1.31
2366	CPSC-CH-C1001-09.3	0.1004		0.71	2826	CPSC-CH-C1001-09.3	0.112		1.52
2369	CPSC-CH-C1001-09.3	0.104		0.96	2827	In house	0.0610		-2.02
2370	IEC62321-8	0.09914		0.63	2828	CPSC-CH-C1001-09.3	0.099		0.62

lab	method	value	mark	z(targ)	lab	method	value	mark	z(targ)
2829	CPSC-CH-C1001-09.4	0.0795		-0.74	3191	CPSC-CH-C1001-09.4	0.0951		0.35
2835		----		----	3192	In house	<0,01	f-?	<-5.55
2841	In house	0.10443		0.99	3197	CPSC-CH-C1001-09.3	0.0450	R(0.05)	-3.13
2842	CPSC-CH-C1001-09.3	0.056999	C	-2.30	3199	CPSC-CH-C1001-09.3	0.100		0.69
2843	ISO16181	0.060831		-2.03	3200		----		----
2845		----		----	3209	CPSC-CH-C1001-09.3	0.0810		-0.63
3100	CPSC-CH-C1001-09.3	0.10404		0.97	3210	In house	0.05019	R(0.05)	-2.77
3116	EN14372	0.092		0.13	3213	IEC62321-8	0.08640		-0.26
3118	CPSC-CH-C1001-09.3	0.08382		-0.44	3214	CPSC-CH-C1001-09.3	0.086935		-0.22
3122	CPSC-CH-C1001-09.3	0.055		-2.44	3220	CPSC-CH-C1001-09.3	0.08488	C	-0.36
3146	In house	<0,1		----	3225		----		----
3150	CPSC-CH-C1001-09.3	0.0993		0.64	3228		0.1052		1.05
3153	CPSC-CH-C1001-09.3	0.0877		-0.17	3237		----		----
3154		----		----	3239	In house	2.25127	C,R(0.01)	149.88
3160	ISO/TS16181	n.d.		----	3243	In house	0.1145	C	1.69
3163		----		----	3246	In house	n.d.		----
3166	In house	<0.005	f-?	<-5.90	3248	In house	0.094		0.27
3167		0.0862		-0.27	8005	ST2016	0.097		0.48
3172	ISO8124-6	0.0810		-0.63	8006	GB22048	0.096		0.41
3176		----		----	8007	CPSC-CH-C1001-09.4	0.098		0.55
3182	CPSC-CH-C1001-09.3	ND		----	8020	CPSC-CH-C1001-09.4	0.1010		0.75
3185	CPSC-CH-C1001-09.4	0.0884		-0.12	8021	ST2016	0.0985		0.58
3190	CPSC-CH-C1001-09.3	0.0886		-0.11					

normality suspect
n 112
outliers 12
mean (n) 0.0901
st.dev. (n) 0.01695
R(calc.) 0.0475
st.dev.(iis) 0.01442
R(iis) 0.0404

Lab 2102 first reported: 0
Lab 2314 first reported: 652.4
Lab 2384 first reported: 521.7812
Lab 2459 first reported: 0.184
Lab 2476 reported: 520.30%M/M (probably a unit error)
Lab 2842 first reported as sample #18561
Lab 3220 first reported 0.18875
Lab 3239 first reported: 2.14746
Lab 3243 first reported: 0.171



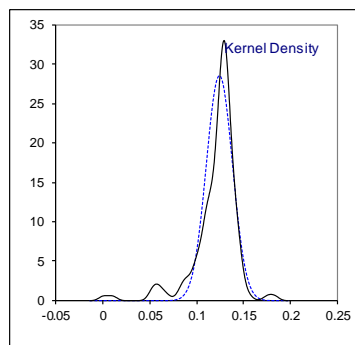
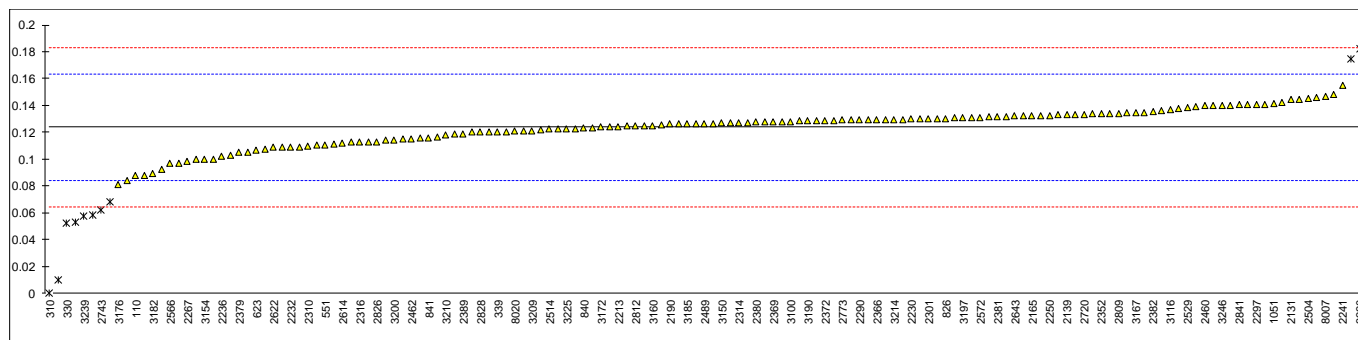
Determination of DCHP – Dicyclohexylphthalate on sample #18560; results in %M/M

lab	method	value	mark	z(targ)	lab	method	value	mark	z(targ)
110	CPSC-CH-C1001-09.3	0.0876		-1.83	2372		0.1287		0.24
213		----		----	2375	ISO14389	0.127		0.16
230	CPSC-CH-C1001-09.3	0.1343		0.53	2378	CPSC-CH-C1001-09.4	0.1400		0.81
310	In house	0	R(0.01)	-6.25	2379	EN14372	0.105		-0.95
330	In house	0.052	R(0.05)	-3.63	2380	CPSC-CH-C1001-09.3	0.12754		0.19
339	In house	0.1202		-0.18	2381	CPSC-CH-C1001-09.3	0.13165		0.39
348	CPSC-CH-C1001-09.3	0.084		-2.01	2382	In house	0.13560		0.59
362		----		----	2384	CPSC-CH-C1001-09.3	0.10281	C	-1.06
523		----		----	2386	CPSC-CH-C1001-09.3	0.1054		-0.93
551	CPSC-CH-C1001-09.3	0.110278		-0.69	2389	CPSC-CH-C1001-09.3	0.1189		-0.25
623	CPSC-CH-C1001-09.3	0.107		-0.85	2390	CPSC-CH-C1001-09.3	0.1205		-0.17
826	IEC62321-8	0.13037		0.33	2415	CPSC-CH-C1001-09.3	0.1292		0.27
840	ISO14389	0.123		-0.04	2422		----		----
841	CPSC-CH-C1001-09.3	0.11584		-0.40	2425	ISO14389	0.1071		-0.85
1051	CPSC-CH-C1001-09.4	0.1416		0.90	2426	CPSC-CH-C1001-09.3	0.1163		-0.38
1213		0.1154		-0.43	2431	CPSC-CH-C1001-09.3	0.1406		0.85
2102		----		----	2432		----		----
2104	CPSC-CH-C1001-09.3	0.130		0.31	2442		----		----
2115	CPSC-CH-C1001-09.3	0.01	R(0.01)	-5.75	2453		----		----
2120	CPSC-CH-C1001-09.3	0.1279		0.20	2459	CPSC-CH-C1001-09.3	0.133		0.46
2129		0.135		0.56	2460	CPSC-CH-C1001-09.3	0.1398		0.80
2131	In house	0.144645		1.05	2462	CPSC-CH-C1001-09.4	0.115		-0.45
2132	CPSC-CH-C1001-09.4	0.1318		0.40	2475		----		----
2137		----		----	2476		No capability		----
2139	CPSC-CH-C1001-09.3	0.133		0.46	2489	CPSC-CH-C1001-09.3	0.1264		0.13
2146		----		----	2492	In house	0.1425		0.94
2159	ISO14389	0.124		0.01	2495	ISO14389	0.12967		0.29
2165	CPSC-CH-C1001-09.4	0.1323		0.43	2497	CPSC-CH-C1001-09.3	0.1273		0.17
2170	CPSC-CH-C1001-09.3	0.1092		-0.74	2500	CPSC-CH-C1001-09.3	0.1264		0.13
2184	ISO8124-6	0.1254		0.08	2503	CPSC-CH-C1001-09.3	0.1147		-0.46
2190		0.126		0.11	2504	CPSC-CH-C1001-09.4	0.145		1.07
2201	CPSC-CH-C1001-09.3	0.1288		0.25	2507		----		----
2202		----		----	2509	CPSC-CH-C1001-09.3	0.120		-0.19
2213	CPSC-CH-C1001-09.3	0.124		0.01	2510	In house	0.130		0.31
2218	CPSC-CH-C1001-09.3	0.1250		0.06	2511	ISO14389	0.1220		-0.09
2222	In house	0.053	R(0.05)	-3.58	2514	ISO14389	0.1225		-0.07
2228	CPSC-CH-C1001-09.3	0.0970		-1.36	2522	CPSC-CH-C1001-09.3/4	0.133		0.46
2230	In house	0.130		0.31	2529	CPSC-CH-C1001-09.4	0.13877		0.75
2232	In house	0.109		-0.75	2532	CPSC-CH-C1001-09.3	0.1280		0.21
2236	CPSC-CH-C1001-09.3	0.10198		-1.10	2553	In house	0.10		-1.20
2241	ISO8124-6	0.155		1.57	2561		----		----
2242	CPSC-CH-C1001-09.3	0.1750	R(0.05)	2.58	2566	CPSC-CH-C1001-09.3	0.0969		-1.36
2250	ISO14389	0.1326		0.44	2567	CPSC-CH-C1001-09.3	0.1140		-0.50
2255		----		----	2572	CPSC-CH-C1001-09.3	0.1310		0.36
2256	CPSC-CH-C1001-09.3	0.092		-1.61	2573	CPSC-CH-C1001-09.3	0.1401		0.82
2258		----		----	2582	CPSC-CH-C1001-09.3	0.12018	C	-0.19
2265	ISO14389	0.1109		-0.65	2590	CPSC-CH-C1001-09.3	0.12823		0.22
2267	In house	0.098	C	-1.30	2591	CPSC-CH-C1001-09.3	0.13076		0.35
2288	CPSC-CH-C1001-09.3	Unmeasured		----	2614	CPSC-CH-C1001-09.3	0.112		-0.60
2290	CPSC-CH-C1001-09.3	0.1291		0.26	2622	CPSC-CH-C1001-09.4	0.1086		-0.77
2293	CPSC-CH-C1001-09.3	0.1002		-1.19	2642		----		----
2297	ISO14389	0.141		0.87	2643	CPSC-CH-C1001-09.3	0.132		0.41
2300	ISO14389	nd		----	2674		0.1321		0.42
2301	In house	0.13		0.31	2678	CPSC-CH-C1001-09.3	0.088		-1.81
2309		----		----	2705		----		----
2310	CPSC-CH-C1001-09.3	0.10980		-0.71	2713		----		----
2311	CPSC-CH-C1001-09.3	0.1213		-0.13	2719		0.1184		-0.28
2313	ISO14389	0.1129		-0.55	2720	CPSC-CH-C1001-09.3	0.1332		0.47
2314	CPSC-CH-C1001-09.3	0.1271	C	0.16	2722		0.1286		0.24
2316	CPSC-CH-C1001-09.3	0.1126		-0.57	2728		----		----
2320	EN14372	0.12271		-0.06	2730		----		----
2330	CPSC-CH-C1001-09.3	0.1339		0.51	2740		0.1225		-0.07
2347	CPSC-CH-C1001-09.3	0.1390		0.76	2741		0.1102		-0.69
2350		----		----	2743	ISO14389	0.0622545	R(0.05)	-3.11
2352	CPSC-CH-C1001-09.4	0.1340		0.51	2773	CPSC-CH-C1001-09.3	0.129		0.26
2353	IEC62321-8	--		----	2774	In house	0.0583	R(0.05)	-3.31
2355	CPSC-CH-C1001-09.3	0.136		0.61	2804	In house	0.132558		0.44
2357	CPSC-CH-C1001-09.3	0.1380		0.71	2809	CPSC-CH-C1001-09.3	0.13423		0.52
2358	CPSC-CH-C1001-09.3	N/A		----	2812	CPSC-CH-C1001-09.3	0.125		0.06
2363	CPSC-CH-C1001-09.4	0.1460		1.12	2821	In house	<0,05	f-?	<-3.73
2365	CPSC-CH-C1001-09.4	0.14484		1.06	2824		----		----
2366	CPSC-CH-C1001-09.3	0.1293		0.27	2826	CPSC-CH-C1001-09.3	0.113		-0.55
2369	CPSC-CH-C1001-09.3	0.128		0.21	2827	In house	0.1309		0.36
2370	IEC62321-8	0.1235		-0.02	2828	CPSC-CH-C1001-09.3	0.120		-0.19

lab	method	value	mark	z(targ)	lab	method	value	mark	z(targ)
2829		----		----	3191	CPSC-CH-C1001-09.4	0.1340		0.51
2835		----		----	3192		----		----
2841	In house	0.14054		0.84	3197	CPSC-CH-C1001-09.3	0.1308		0.35
2842		----		----	3199	CPSC-CH-C1001-09.3	0.129		0.26
2843		----		----	3200	CPSC-CH-C1001-09.3	0.1140		-0.50
2845		----		----	3209	CPSC-CH-C1001-09.3	0.1214		-0.12
3100	CPSC-CH-C1001-09.3	0.1282		0.22	3210	In house	0.11788		-0.30
3116	EN14372	0.137		0.66	3213		----		----
3118	CPSC-CH-C1001-09.3	0.10890		-0.75	3214	CPSC-CH-C1001-09.3	0.129666		0.29
3122	CPSC-CH-C1001-09.3	0.068	R(0.05)	-2.82	3220	CPSC-CH-C1001-09.3	0.18259	R(0.05)	2.96
3146	In house	0.1263		0.12	3225	CPSC-CH-C1001-09.4	0.1227		-0.06
3150	CPSC-CH-C1001-09.3	0.1268		0.15	3228		0.1314		0.38
3153		----		----	3237		----		----
3154	ISO14389	0.100		-1.20	3239	In house	0.05758	R(0.05)	-3.34
3160	ISO/TS16181	0.12514		0.06	3243	In house	0.125		0.06
3163		----		----	3246	In house	0.140		0.81
3166	In house	0.1124		-0.58	3248	In house	0.126		0.11
3167		0.1348		0.55	8005	ST2016	0.141		0.87
3172	ISO8124-6	0.1238		0.00	8006	GB22048	0.148		1.22
3176	CPSC-CH-C1001-09.3	0.081		-2.16	8007	CPSC-CH-C1001-09.4	0.147		1.17
3182	CPSC-CH-C1001-09.3	0.0896		-1.73	8020	CPSC-CH-C1001-09.4	0.1207		-0.16
3185	CPSC-CH-C1001-09.4	0.1261		0.11	8021	ST2016	0.1294		0.28
3190	CPSC-CH-C1001-09.3	0.1283		0.22					

normality OK
 n 143
 outliers 10
 mean (n) 0.1239
 st.dev. (n) 0.01395
 R(calc.) 0.0390
 st.dev.(iis) 0.01982
 R(iis) 0.0555

Lab 2267 first reported: 0.046
 Lab 2314 first reported: 1271.33
 Lab 2384 first reported: 1028.0736
 Lab 2582 first reported: 998.1



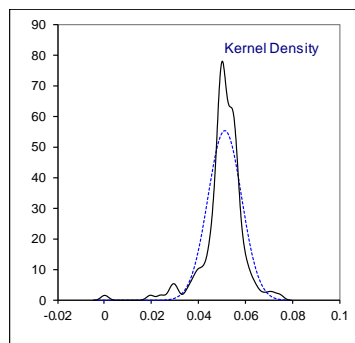
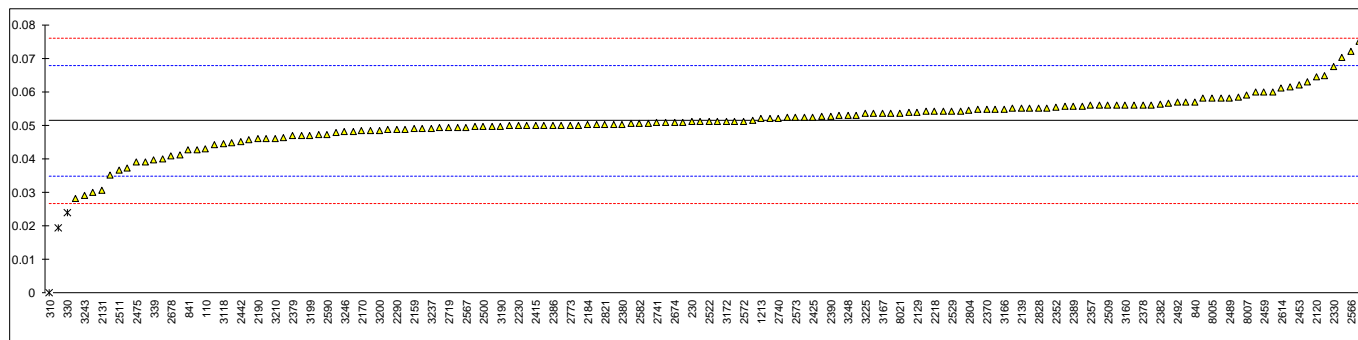
Determination of DNPP – Di-n-pentylphthalate on sample #18560; results in %M/M

lab	method	value	mark	z(targ)	lab	method	value	mark	z(targ)
110	CPSC-CH-C1001-09.3	0.0429		-1.03	2372		0.05464		0.40
213		----		----	2375	ISO14389	0.052		0.08
230	CPSC-CH-C1001-09.3	0.0510		-0.04	2378	CPSC-CH-C1001-09.4	0.0561		0.58
310	In house	0	R(0.01)	-6.25	2379	EN14372	0.047		-0.53
330	In house	0.024	R(0.05)	-3.33	2380	CPSC-CH-C1001-09.3	0.05037		-0.12
339	In house	0.0396		-1.43	2381	CPSC-CH-C1001-09.3	0.0495		-0.22
348	CPSC-CH-C1001-09.3	0.040		-1.38	2382	In house	0.05623		0.59
362		----		----	2384		----		----
523		----		----	2386	CPSC-CH-C1001-09.3	0.0500		-0.16
551	CPSC-CH-C1001-09.3	0.052928		0.19	2389	CPSC-CH-C1001-09.3	0.0557		0.53
623	CPSC-CH-C1001-09.3	0.050		-0.16	2390	CPSC-CH-C1001-09.3	0.0527		0.17
826	IEC62321-8	0.06154		1.24	2415	CPSC-CH-C1001-09.3	0.0499		-0.18
840	ISO14389	0.057		0.69	2422		----		----
841	CPSC-CH-C1001-09.3	0.04260		-1.06	2425	ISO14389	0.0524		0.13
1051	CPSC-CH-C1001-09.4	0.0486		-0.33	2426	CPSC-CH-C1001-09.3	0.0499		-0.18
1213		0.0519		0.07	2431	CPSC-CH-C1001-09.3	0.0541		0.34
2102		----		----	2432	ISO14389	0.0479		-0.42
2104	CPSC-CH-C1001-09.3	0.057		0.69	2442	In house	0.045	C	-0.77
2115		----		----	2453	ISO14389	0.062		1.30
2120	CPSC-CH-C1001-09.3	0.0645		1.60	2459	CPSC-CH-C1001-09.3	0.060		1.05
2129		0.054		0.32	2460	CPSC-CH-C1001-09.3	0.0561		0.58
2131	In house	0.03073		-2.51	2462	CPSC-CH-C1001-09.4	0.051		-0.04
2132	CPSC-CH-C1001-09.4	0.0542		0.35	2475	In house	0.0389		-1.51
2137		----		----	2476		No Capability		----
2139	CPSC-CH-C1001-09.3	0.055		0.45	2489	CPSC-CH-C1001-09.3	0.0582		0.83
2146		----		----	2492	In house	0.0568	C	0.66
2159	ISO14389	0.049		-0.29	2495	ISO14389	0.04431		-0.86
2165	CPSC-CH-C1001-09.4	0.0471		-0.52	2497	CPSC-CH-C1001-09.3	0.0371		-1.73
2170	CPSC-CH-C1001-09.3	0.0484		-0.36	2500	CPSC-CH-C1001-09.3	0.0496		-0.21
2184	ISO8124-6	0.0501		-0.15	2503		----		----
2190		0.046		-0.65	2504	CPSC-CH-C1001-09.4	0.035		-1.99
2201	CPSC-CH-C1001-09.3	0.0536		0.27	2507		----		----
2202		----		----	2509	CPSC-CH-C1001-09.3	0.056		0.57
2213	CPSC-CH-C1001-09.3	0.0505		-0.10	2510		----		----
2218	CPSC-CH-C1001-09.3	0.0541		0.34	2511	ISO14389	0.0366		-1.79
2222	In house	NE		----	2514	ISO14389	0.0448		-0.80
2228	CPSC-CH-C1001-09.3	0.0567		0.65	2522	CPSC-CH-C1001-09.3/4	0.051		-0.04
2230	In house	0.0498		-0.19	2529	CPSC-CH-C1001-09.4	0.05412		0.34
2232	In house	0.0411		-1.25	2532	CPSC-CH-C1001-09.3	0.0509		-0.05
2236	CPSC-CH-C1001-09.3	0.04565		-0.69	2553	In house	ND		----
2241	ISO8124-6	0.054		0.32	2561		----		----
2242	CPSC-CH-C1001-09.3	0.0646		1.61	2566	CPSC-CH-C1001-09.3	0.0721		2.53
2250	ISO14389	0.0513		-0.01	2567	CPSC-CH-C1001-09.3	0.0494		-0.24
2255		----		----	2572	CPSC-CH-C1001-09.3	0.0512		-0.02
2256	CPSC-CH-C1001-09.3	0.055		0.45	2573	CPSC-CH-C1001-09.3	0.0523		0.12
2258		----		----	2582	CPSC-CH-C1001-09.3	0.05044	C	-0.11
2265	ISO14389	0.0482		-0.38	2590	CPSC-CH-C1001-09.3	0.047325		-0.49
2267	In house	0.03		-2.60	2591		----		----
2288	CPSC-CH-C1001-09.3	Unmeasured		----	2614	CPSC-CH-C1001-09.3	0.061		1.18
2290	CPSC-CH-C1001-09.3	0.0486		-0.33	2622	CPSC-CH-C1001-09.4	0.0701		2.28
2293	CPSC-CH-C1001-09.3	0.060		1.05	2642		----		----
2297	ISO14389	0.0531		0.21	2643	CPSC-CH-C1001-09.3	0.049		-0.29
2300	ISO14389	nd		----	2674		0.0509		-0.05
2301	In house	0.06		1.05	2678	CPSC-CH-C1001-09.3	0.041		-1.26
2309		----		----	2705		----		----
2310	CPSC-CH-C1001-09.3	0.04962		-0.21	2713		----		----
2311	CPSC-CH-C1001-09.3	0.0511		-0.03	2719		0.0492		-0.26
2313	ISO14389	0.0558		0.54	2720	CPSC-CH-C1001-09.3	0.0509		-0.05
2314	CPSC-CH-C1001-09.3	0.0498	C	-0.19	2722		0.0523		0.12
2316	CPSC-CH-C1001-09.3	0.0492	C	-0.26	2728		----		----
2320	EN14372	0.05411		0.34	2730		----		----
2330	CPSC-CH-C1001-09.3	0.0675		1.97	2740		0.0521	C	0.09
2347	CPSC-CH-C1001-09.3	0.0548		0.42	2741		0.0508		-0.07
2350		----		----	2743	ISO14389	0.028104		-2.83
2352	CPSC-CH-C1001-09.4	0.0554		0.49	2773	CPSC-CH-C1001-09.3	0.050		-0.16
2353	IEC62321-8	--		----	2774	In house	0.0484		-0.36
2355	CPSC-CH-C1001-09.3	0.0556		0.52	2804	In house	0.054534		0.39
2357	CPSC-CH-C1001-09.3	0.0559		0.55	2809	CPSC-CH-C1001-09.3	0.04863		-0.33
2358	CPSC-CH-C1001-09.3	N/A		----	2812	CPSC-CH-C1001-09.3	0.051		-0.04
2363	CPSC-CH-C1001-09.4	0.0550		0.45	2821	In house	0.0503		-0.13
2365	CPSC-CH-C1001-09.4	0.05033		-0.12	2824		----		----
2366	CPSC-CH-C1001-09.3	0.0560		0.57	2826	CPSC-CH-C1001-09.3	0.047		-0.53
2369	CPSC-CH-C1001-09.3	0.058		0.81	2827	In house	0.0551		0.46
2370	IEC62321-8	0.05470		0.41	2828	CPSC-CH-C1001-09.3	0.055		0.45

lab	method	value	mark	z(targ)	lab	method	value	mark	z(targ)
2829	CPSC-CH-C1001-09.4	0.0426		-1.06	3191	CPSC-CH-C1001-09.4	0.0522		0.10
2835		----		----	3192		----		----
2841		----		----	3197	CPSC-CH-C1001-09.3	0.0462		-0.63
2842		----		----	3199	CPSC-CH-C1001-09.3	0.047		-0.53
2843		----		----	3200	CPSC-CH-C1001-09.3	0.0484		-0.36
2845		----		----	3209	CPSC-CH-C1001-09.3	0.0525		0.14
3100	CPSC-CH-C1001-09.3	0.05611		0.58	3210	In house	0.04608		-0.64
3116	EN14372	0.056		0.57	3213		----		----
3118	CPSC-CH-C1001-09.3	0.04442		-0.84	3214	CPSC-CH-C1001-09.3	0.049361		-0.24
3122	CPSC-CH-C1001-09.3	0.039		-1.50	3220	CPSC-CH-C1001-09.3	0.05844	C	0.86
3146	In house	0.0504		-0.11	3225	CPSC-CH-C1001-09.4	0.05356		0.27
3150	CPSC-CH-C1001-09.3	0.0629		1.41	3228		0.050		-0.16
3153		----		----	3237	In house	0.049		-0.29
3154	ISO14389	0.075		2.88	3239	In house	0.019514	R(0.01)	-3.87
3160	ISO/TS16181	0.05606		0.57	3243	In house	0.029		-2.72
3163		0.0502		-0.14	3246	In house	0.048		-0.41
3166	In house	0.05489		0.43	3248	In house	0.053		0.20
3167		0.0537		0.29	8005	ST2016	0.058		0.81
3172	ISO8124-6	0.0510		-0.04	8006	GB22048	0.058		0.81
3176		----		----	8007	CPSC-CH-C1001-09.4	0.059		0.93
3182	CPSC-CH-C1001-09.3	0.046		-0.65	8020	CPSC-CH-C1001-09.4	0.0498		-0.19
3185	CPSC-CH-C1001-09.4	0.0537		0.29	8021	ST2016	0.0537		0.29
3190	CPSC-CH-C1001-09.3	0.0497		-0.20					

normality not OK
n 149
outliers 3
mean (n) 0.0513
st.dev. (n) 0.00722
R(calc.) 0.0202
st.dev.(iis) 0.00821
R(iis) 0.0230

Lab 2314 first reported: 498.3
Lab 2316 first reported: 0.492
Lab 2442 first reported: 0.133
Lab 2492 first reported: 0.0864
Lab 2582 first reported: 504.4
Lab 2740 first reported: 0.1989
Lab 3220 first reported: 0.09357

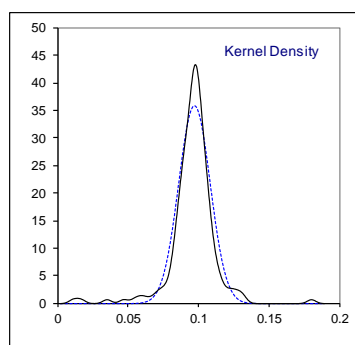
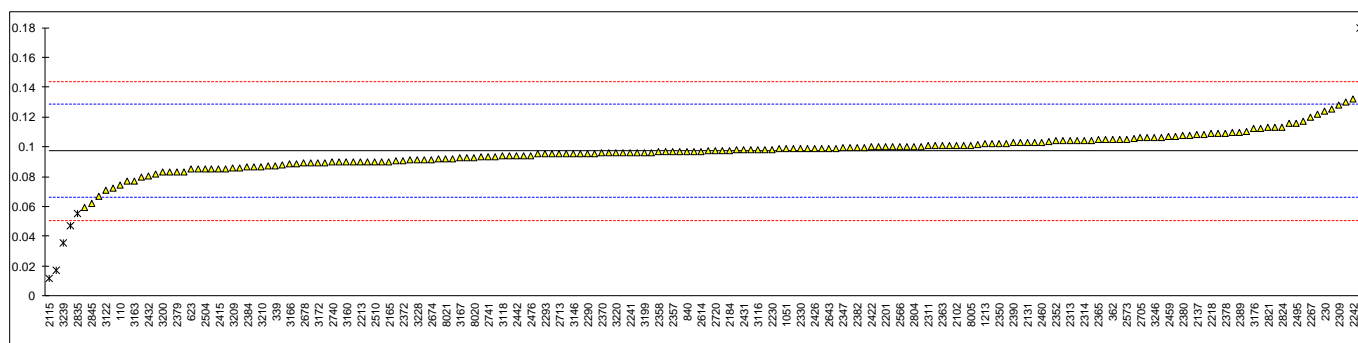


Determination of BBP – Benzylbutylphthalate on sample #18561; results in %M/M

lab	method	value	mark	z(targ)	lab	method	value	mark	z(targ)
110	CPSC-CH-C1001-09.3	0.0742		-1.48	2372		0.0906		-0.43
213	CPSC-CH-C1001-09.3	0.09848	C	0.08	2375	ISO14389	0.095		-0.14
230	CPSC-CH-C1001-09.3	0.1236		1.69	2378	CPSC-CH-C1001-09.4	0.1090		0.76
310	In house	0.106		0.56	2379	EN14372	0.083		-0.91
330	In house	0.059		-2.46	2380	CPSC-CH-C1001-09.3	0.10728		0.65
339	In house	0.0871		-0.65	2381	CPSC-CH-C1001-09.3	0.10500		0.50
348	CPSC-CH-C1001-09.3	0.067		-1.94	2382	In house	0.09953		0.15
362	ISO14389	0.105		0.50	2384	CPSC-CH-C1001-09.3	0.08636	C	-0.70
523	-----	-----		-----	2386	CPSC-CH-C1001-09.3	0.0814		-1.02
551	CPSC-CH-C1001-09.3	0.125506		1.82	2389		0.1098		0.81
623	CPSC-CH-C1001-09.3	0.085		-0.79	2390	CPSC-CH-C1001-09.3	0.1025		0.34
826	IEC62321-8	0.11026		0.84	2415	CPSC-CH-C1001-09.3	0.0852		-0.77
840	ISO14389	0.097		-0.01	2422	KS M1991	0.09989		0.17
841	CPSC-CH-C1001-09.3	0.09721		0.00	2425	ISO14389	0.0915		-0.37
1051	CPSC-CH-C1001-09.4	0.0986		0.09	2426	CPSC-CH-C1001-09.3	0.0988		0.10
1213		0.1019		0.30	2431	CPSC-CH-C1001-09.3	0.0980		0.05
2102	In house	0.101		0.24	2432	ISO14389	0.0805		-1.08
2104	CPSC-CH-C1001-09.3	0.097		-0.01	2442	In house	0.094		-0.21
2115	CPSC-CH-C1001-09.3	0.0116	R(0.01)	-5.50	2453	ISO14389	0.107		0.63
2120	CPSC-CH-C1001-09.3	0.1159		1.20	2459	ISO14389	0.107		0.63
2129		0.095		-0.14	2460	CPSC-CH-C1001-09.3	0.1031		0.38
2131	In house	0.102695		0.35	2462	CPSC-CH-C1001-09.4	0.086		-0.72
2132	CPSC-CH-C1001-09.4	0.0920		-0.34	2475	In house	0.0917		-0.36
2137	CPSC	0.108		0.69	2476	CPSC-CH-C1001-09.3	0.094012	C	-0.21
2139	CPSC-CH-C1001-09.3	0.130		2.11	2489	CPSC-CH-C1001-09.3	0.0955		-0.11
2146	-----	-----		-----	2492	In house	0.1026		0.35
2159	ISO14389	0.083		-0.91	2495	ISO14389	0.11605		1.21
2165	CPSC-CH-C1001-09.4	0.0902		-0.45	2497	CPSC-CH-C1001-09.3	0.0888		-0.54
2170	CPSC-CH-C1001-09.3	0.0870		-0.66	2500	CPSC-CH-C1001-09.3	0.0935		-0.24
2184	ISO8124-6	0.0975		0.02	2503		0.0898		-0.48
2190		0.104		0.44	2504	CPSC-CH-C1001-09.4	0.085		-0.79
2201	CPSC-CH-C1001-09.3	0.1000		0.18	2507	CPSC-CH-C1001-09.3	0.102		0.31
2202	In house	0.1096		0.80	2509		0.080		-1.11
2213	CPSC-CH-C1001-09.3	0.09		-0.46	2510	In house	0.090		-0.46
2218	CPSC-CH-C1001-09.3	0.1087		0.74	2511	CPSC-CH-C1001-09.3	0.085		-0.79
2222	In house	0.09		-0.46	2514	ISO14389	0.1000		0.18
2228	CPSC-CH-C1001-09.3	0.1062		0.58	2522	CPSC-CH-C1001-09.3	0.101		0.24
2230		0.0982		0.06	2529	CPSC-CH-C1001-09.4	0.10815		0.70
2232	In house	0.0853		-0.77	2532	CPSC-CH-C1001-09.3	0.0978		0.04
2236	CPSC-CH-C1001-09.3	0.07674		-1.32	2553	In house	0.098		0.05
2241	ISO8124-6	0.096		-0.08	2561	-----	-----		-----
2242	CPSC-CH-C1001-09.3	0.1320		2.23	2566	CPSC-CH-C1001-09.3	0.100		0.18
2250	ISO14389	0.0967		-0.03	2567	CPSC-CH-C1001-09.3	0.0986		0.09
2255	-----	-----		-----	2572	CPSC-CH-C1001-09.3	0.0971		-0.01
2256	CPSC-CH-C1001-09.3	0.085		-0.79	2573	CPSC-CH-C1001-09.3	0.1051		0.51
2258	-----	-----		-----	2582	CPSC-CH-C1001-09.3	0.08812	C	-0.59
2265	ISO14389	0.0900		-0.46	2590	CPSC-CH-C1001-09.3	0.10871		0.74
2267		0.12	C	1.46	2591		0.12218		1.60
2288	CPSC-CH-C1001-09.3	0.1045		0.47	2614	CPSC-CH-C1001-09.3	0.097		-0.01
2290	CPSC-CH-C1001-09.3	0.0955		-0.11	2622	CPSC-CH-C1001-09.3/4	0.1030		0.37
2293	CPSC-CH-C1001-09.3	0.095		-0.14	2642	CPSC-CH-C1001-09.3	0.1048		0.49
2297	ISO14389	0.102		0.31	2643	CPSC-CH-C1001-09.3	0.099		0.11
2300	ISO14389	nd		-----	2674		0.0915		-0.37
2301		ND		-----	2678		0.089		-0.53
2309	CPSC-CH-C1001-09.3	0.128		1.98	2705	In house	0.1059		0.56
2310	CPSC-CH-C1001-09.3	0.10434		0.46	2713	CPSC-CH-C1001-09.3	0.0950		-0.14
2311	CPSC-CH-C1001-09.3	0.1005		0.21	2719		0.0993		0.13
2313	ISO14389	0.1041		0.44	2720	CPSC-CH-C1001-09.3	0.0972		0.00
2314	CPSC-CH-C1001-09.3	0.1045	C	0.47	2722		0.0988		0.10
2316	CPSC-CH-C1001-09.3	0.1010		0.24	2728	In house	0.0472	R(0.01)	-3.22
2320	EN14372	0.09268		-0.29	2730	EN15777	0.017	R(0.01)	-5.16
2330	CPSC-CH-C1001-09.3	0.0987		0.09	2740		0.0896		-0.49
2347	CPSC-CH-C1001-09.3	0.0991		0.12	2741	CPSC-CH-C1001-09.3	0.0931		-0.27
2350		0.102		0.31	2743	ISO14389	0.1038265		0.42
2352	CPSC-CH-C1001-09.4	0.1039		0.43	2773	CPSC-CH-C1001-09.3	0.10		0.18
2353	IEC62321-8	0.10748		0.66	2774	In house	0.1003		0.20
2355	CPSC-CH-C1001-09.3	0.101		0.24	2804	In house	0.100103		0.18
2357	CPSC-CH-C1001-09.3	0.0968		-0.03	2809	CPSC-CH-C1001-09.3	0.08955		-0.49
2358	CPSC-CH-C1001-09.3	0.096366		-0.06	2812	CPSC-CH-C1001-09.3	0.089		-0.53
2363	CPSC-CH-C1001-09.4	0.1010		0.24	2821		0.113		1.01
2365	CPSC-CH-C1001-09.4	0.10472		0.48	2824	CPSC-CH-C1001-09.3	0.1132		1.03
2366	CPSC-CH-C1001-09.3	0.0953		-0.12	2826	CPSC-CH-C1001-09.3	0.094		-0.21
2369	CPSC-CH-C1001-09.3	0.097		-0.01	2827	In house	0.0939		-0.21
2370	IEC62321-8	0.09569		-0.10	2828	CPSC-CH-C1001-09.3	0.090		-0.46

lab	method	value	mark	z(targ)	lab	method	value	mark	z(targ)
2829	CPSC-CH-C1001-09.4	0.1053		0.52	3191	GB/T22048	0.0987		0.09
2835	EPA3545A/8270D	0.0549308	C,R(0.05)	-2.72	3192	In house	0.072		-1.62
2841	In house	0.10143		0.27	3197	CPSC-CH-C1001-09.3	0.0960		-0.08
2842	CPSC-CH-C1001-09.3	0.090522	C	-0.43	3199	CPSC-CH-C1001-09.3	0.096		-0.08
2843	ISO16181	0.086577		-0.68	3200	CPSC-CH-C1001-09.3	0.0829		-0.92
2845		0.062		-2.26	3209	CPSC-CH-C1001-09.3	0.0856		-0.75
3100	CPSC-CH-C1001-09.3	0.09960		0.15	3210	In house	0.08661		-0.68
3116	EN14372	0.098		0.05	3213	IEC62321-8	0.09569		-0.10
3118		0.09372		-0.23	3214	CPSC-CH-C1001-09.3	0.096238		-0.06
3122	CPSC-CH-C1001-09.3	0.071		-1.69	3220	CPSC-CH-C1001-09.3	0.09579	C	-0.09
3146	In house	0.0951		-0.14	3225	CPSC-CH-C1001-09.4	0.09502		-0.14
3150	CPSC-CH-C1001-09.3	0.0999		0.17	3228		0.0912		-0.39
3153	CPSC-CH-C1001-09.3	0.0959		-0.09	3237	In house	0.117		1.27
3154	ISO14389	0.093		-0.27	3239	In house	0.03545	R(0.01)	-3.97
3160	ISO/TS16181	0.08998		-0.47	3243	In house	0.091		-0.40
3163		0.0770		-1.30	3246		0.106		0.56
3166	In house	0.08844		-0.57	3248	In house	0.180	C,R(0.01)	5.32
3167		0.0925		-0.30	8005	ST2016	0.101		0.24
3172	IS8126-6	0.0893		-0.51	8006	GB22048	0.113		1.01
3176	CPSC-CH-C1001-09.3	0.112		0.95	8007	CPSC-CH-C1001-09.4	0.112		0.95
3182	CPSC-CH-C1001-09.3	0.083		-0.91	8020	CPSC-CH-C1001-09.4	0.0927		-0.29
3185	CPSC-CH-C1001-09.4	0.0980		0.05	8021	ST2016	0.0919		-0.34
3190	CPSC-CH-C1001-09.3	0.0990		0.11					
	normality	suspect							
	n	180							
	outliers	6							
	mean (n)	0.0972							
	st.dev. (n)	0.01116							
	R(calc.)	0.0312							
	st.dev.(iis)	0.01556							
	R(iis)	0.0436							

Lab 213 first reported: 984.84
 Lab 2267 first reported: 0.05
 Lab 2314 first reported: 1045.4
 Lab 2384 first reported: 863.6364
 Lab 2476 reported 940.12%M/M (probably a unit error)
 Lab 2582 first reported: 881.2
 Lab 2835 first reported: 0.0271858
 Lab 2842 first reported as sample #18560
 Lab 3220 first reported: 0.15106
 Lab 3248 first reported: 0.266



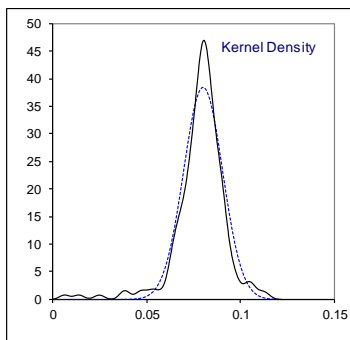
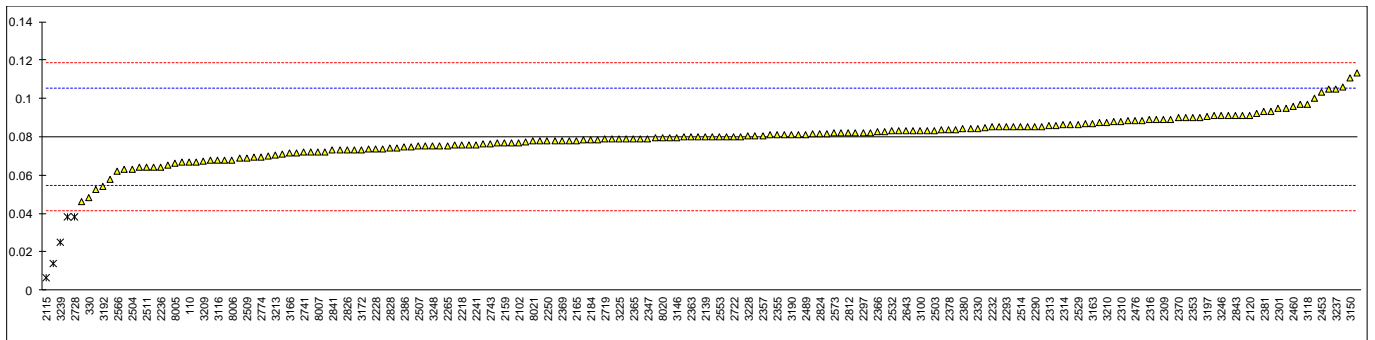
Determination of DEHP – Bis-2-ethylhexylphthalate on sample #18561; results in %M/M

lab	method	value	mark	z(targ)	lab	method	value	mark	z(targ)
110	CPSC-CH-C1001-09.3	0.0668		-1.03	2372		0.0855		0.43
213	CPSC-CH-C1001-09.3	0.08727	C	0.57	2375	ISO14389	0.088		0.62
230	CPSC-CH-C1001-09.3	0.08635		0.50	2378	CPSC-CH-C1001-09.4	0.0836		0.28
310	In house	0.082		0.16	2379	EN14372	0.080		0.00
330	In house	0.048		-2.50	2380	CPSC-CH-C1001-09.3	0.08396		0.31
339	In house	0.0678		-0.95	2381	CPSC-CH-C1001-09.3	0.09302		1.02
348	CPSC-CH-C1001-09.3	<0.005	f-?	<-5.87	2382	In house	0.08311		0.24
362	-----	-----		-----	2384	CPSC-CH-C1001-09.3	0.06413	C	-1.24
523	-----	-----		-----	2386	CPSC-CH-C1001-09.3	0.0747		-0.41
551	CPSC-CH-C1001-09.3	0.113452		2.61	2389		0.0858		0.45
623	CPSC-CH-C1001-09.3	0.069		-0.86	2390	CPSC-CH-C1001-09.3	0.0901		0.79
826	IEC62321-8	0.07908		-0.07	2415	CPSC-CH-C1001-09.3	0.0753		-0.37
840	ISO14389	0.085		0.39	2422	-----	-----		-----
841	CPSC-CH-C1001-09.3	0.09204		0.94	2425	ISO14389	0.0761		-0.30
1051	CPSC-CH-C1001-09.4	0.0826		0.20	2426	CPSC-CH-C1001-09.3	0.0911		0.87
1213		0.0823		0.18	2431	CPSC-CH-C1001-09.3	0.0823		0.18
2102	In house	0.077		-0.23	2432	ISO14389	0.0736		-0.50
2104	CPSC-CH-C1001-09.3	0.085		0.39	2442	In house	0.08		0.00
2115	CPSC-CH-C1001-09.3	0.0063	R(0.01)	-5.76	2453	ISO14389	0.103		1.80
2120	CPSC-CH-C1001-09.3	0.0912		0.87	2459	ISO14389	0.081		0.08
2129		0.077		-0.23	2460	CPSC-CH-C1001-09.3	0.0961		1.26
2131	In house	0.104995		1.95	2462	CPSC-CH-C1001-09.4	0.073		-0.55
2132	CPSC-CH-C1001-09.4	0.0693		-0.84	2475	In house	0.0812		0.09
2137	CPSC	0.091		0.86	2476	CPSC-CH-C1001-09.3	0.0885	C	0.66
2139	CPSC-CH-C1001-09.3	0.080		0.00	2489	CPSC-CH-C1001-09.3	0.0812		0.09
2146	-----	-----		-----	2492	In house	0.0883		0.65
2159	ISO14389	0.077		-0.23	2495	ISO14389	0.09666		1.30
2165	CPSC-CH-C1001-09.4	0.0781		-0.15	2497	CPSC-CH-C1001-09.3	0.0649		-1.18
2170	CPSC-CH-C1001-09.3	0.0815		0.12	2500	CPSC-CH-C1001-09.3	0.0716		-0.66
2184	ISO8124-6	0.0785		-0.12	2503		0.0834		0.27
2190		0.064		-1.25	2504	CPSC-CH-C1001-09.4	0.063		-1.33
2201	CPSC-CH-C1001-09.3	0.0786		-0.11	2507	CPSC-CH-C1001-09.3	0.075		-0.39
2202	In house	0.0842		0.33	2509		0.069		-0.86
2213	CPSC-CH-C1001-09.3	0.0712		-0.69	2510	In house	0.095		1.17
2218	CPSC-CH-C1001-09.3	0.0758		-0.33	2511	CPSC-CH-C1001-09.3	0.064		-1.25
2222	In house	< 0.01	f-?	<-5.47	2514	ISO14389	0.0850		0.39
2228	CPSC-CH-C1001-09.3	0.0737		-0.49	2522	CPSC-CH-C1001-09.3	0.083		0.23
2230		0.0792		-0.06	2529	CPSC-CH-C1001-09.4	0.08646		0.50
2232	In house	0.0850		0.39	2532	CPSC-CH-C1001-09.3	0.0829		0.23
2236	CPSC-CH-C1001-09.3	0.06424		-1.23	2553	In house	0.08		0.00
2241	ISO8124-6	0.076		-0.31	2561	-----	-----		-----
2242	CPSC-CH-C1001-09.3	0.1060		2.03	2566	CPSC-CH-C1001-09.3	0.0620		-1.41
2250	ISO14389	0.0780		-0.16	2567	CPSC-CH-C1001-09.3	0.0845		0.35
2255	-----	-----		-----	2572	CPSC-CH-C1001-09.3	0.0868		0.53
2256	CPSC-CH-C1001-09.3	0.078		-0.16	2573	CPSC-CH-C1001-09.3	0.0819		0.15
2258	-----	-----		-----	2582	CPSC-CH-C1001-09.3	0.07908	C	-0.07
2265	ISO14389	0.0754		-0.36	2590	CPSC-CH-C1001-09.3	0.09113		0.87
2267		0.089	C	0.70	2591		0.09002		0.78
2288	CPSC-CH-C1001-09.3	0.08392		0.31	2614	CPSC-CH-C1001-09.3	0.080		0.00
2290	CPSC-CH-C1001-09.3	0.0852		0.41	2622	CPSC-CH-C1001-09.3/4	0.0577		-1.74
2293	CPSC-CH-C1001-09.3	0.085		0.39	2642	CPSC-CH-C1001-09.3	0.09305		1.02
2297	ISO14389	0.0823		0.18	2643	CPSC-CH-C1001-09.3	0.083		0.23
2300	ISO14389	0.1		1.56	2674		0.0774		-0.20
2301		0.095		1.17	2678		0.079		-0.08
2309	CPSC-CH-C1001-09.3	0.089		0.70	2705	In house	0.0629		-1.34
2310	CPSC-CH-C1001-09.3	0.08803		0.63	2713	CPSC-CH-C1001-09.3	0.0666		-1.05
2311	CPSC-CH-C1001-09.3	0.0891		0.71	2719		0.0789		-0.09
2313	ISO14389	0.0857		0.45	2720	CPSC-CH-C1001-09.3	0.0778		-0.17
2314	CPSC-CH-C1001-09.3	0.0861	C	0.48	2722		0.0800		0.00
2316	CPSC-CH-C1001-09.3	0.0889		0.70	2728	In house	0.0384	R(0.05)	-3.25
2320	EN14372	0.07387		-0.48	2730	EN15777	0.014	R(0.01)	-5.16
2330	CPSC-CH-C1001-09.3	0.0844		0.34	2740		0.0732		-0.53
2347	CPSC-CH-C1001-09.3	0.0791		-0.07	2741	CPSC-CH-C1001-09.3	0.0718		-0.64
2350		0.080		0.00	2743	ISO14389	0.0762435		-0.29
2352	CPSC-CH-C1001-09.4	0.0796		-0.03	2773	CPSC-CH-C1001-09.3	0.08		0.00
2353	IEC62321-8	0.090038		0.78	2774	In house	0.0694		-0.83
2355	CPSC-CH-C1001-09.3	0.0810		0.08	2804	In house	0.08049		0.04
2357	CPSC-CH-C1001-09.3	0.0806		0.05	2809	CPSC-CH-C1001-09.3	0.07657		-0.27
2358	CPSC-CH-C1001-09.3	0.075683		-0.34	2812	CPSC-CH-C1001-09.3	0.082		0.16
2363	CPSC-CH-C1001-09.4	0.0800		0.00	2821		0.0832		0.25
2365	CPSC-CH-C1001-09.4	0.07908		-0.07	2824	CPSC-CH-C1001-09.3	0.0816		0.12
2366	CPSC-CH-C1001-09.3	0.0826		0.20	2826	CPSC-CH-C1001-09.3	0.073		-0.55
2369	CPSC-CH-C1001-09.3	0.078		-0.16	2827	In house	0.0722		-0.61
2370	IEC62321-8	0.09001		0.78	2828	CPSC-CH-C1001-09.3	0.074		-0.47

lab	method	value	mark	z(targ)	lab	method	value	mark	z(targ)
2829	CPSC-CH-C1001-09.4	0.0523		-2.16	3191	GB/T22048	0.0783		-0.13
2835	EPA3545A/8270D	0.0383123	C,R(0.05)	-3.26	3192	In house	0.054		-2.03
2841	In house	0.07294		-0.55	3197	CPSC-CH-C1001-09.3	0.0903		0.80
2842	CPSC-CH-C1001-09.3	0.088607	C	0.67	3199	CPSC-CH-C1001-09.3	0.081		0.08
2843	ISO16181	0.091126		0.87	3200	CPSC-CH-C1001-09.3	0.0680		-0.94
2845		0.067		-1.02	3209	CPSC-CH-C1001-09.3	0.0672		-1.00
3100	CPSC-CH-C1001-09.3	0.08317		0.25	3210	In house	0.08748		0.58
3116	EN14372	0.068		-0.94	3213	IEC62321-8	0.07035		-0.75
3118		0.09708		1.33	3214	CPSC-CH-C1001-09.3	0.083465		0.27
3122	CPSC-CH-C1001-09.3	0.046		-2.66	3220	CPSC-CH-C1001-09.3	0.06994	C	-0.79
3146	In house	0.0797		-0.02	3225	CPSC-CH-C1001-09.4	0.0790		-0.08
3150	CPSC-CH-C1001-09.3	0.1106		2.39	3228		0.0803		0.02
3153	CPSC-CH-C1001-09.3	0.0742		-0.45	3237	In house	0.105	C	1.95
3154	ISO14389	0.075		-0.39	3239	In house	0.02481	R(0.01)	-4.31
3160	ISO/TS16181	0.07593		-0.32	3243	In house	0.078		-0.16
3163		0.0869		0.54	3246		0.091		0.86
3166	In house	0.07141		-0.67	3248	In house	0.075	C	-0.39
3167		0.0747		-0.41	8005	ST2016	0.066		-1.09
3172	IS8126-6	0.0732		-0.53	8006	GB22048	0.068		-0.94
3176	CPSC-CH-C1001-09.3	0.085		0.39	8007	CPSC-CH-C1001-09.4	0.072		-0.63
3182	CPSC-CH-C1001-09.3	0.072		-0.63	8020	CPSC-CH-C1001-09.4	0.0794		-0.05
3185	CPSC-CH-C1001-09.4	0.0818		0.14	8021	ST2016	0.0777		-0.18
3190	CPSC-CH-C1001-09.3	0.0811		0.09					

normality	suspect
n	179
outliers	5
mean (n)	0.0800
st.dev. (n)	0.01035
R(calc.)	0.0290
st.dev.(iis)	0.01280
R(iis)	0.0358

Lab 213 first reported: 872.72
 Lab 2267 first reported: 0.034
 Lab 2314 first reported: 860.96
 Lab 2384 first reported: 641.3043
 Lab 2476 reported: 885.0%M/M (probably a unit error)
 Lab 2582 first reported: 735.0
 Lab 2835 first reported: 0.013095
 Lab 2842 first reported as sample #18560
 Lab 3220 first reported: 0.15188
 Lab 3237 first reported: 0.137
 Lab 3248 first reported: 0.206



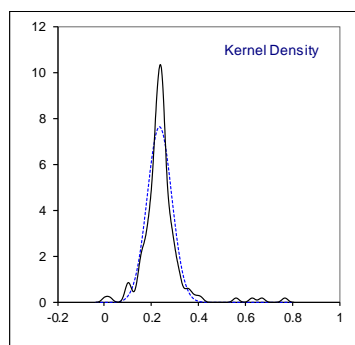
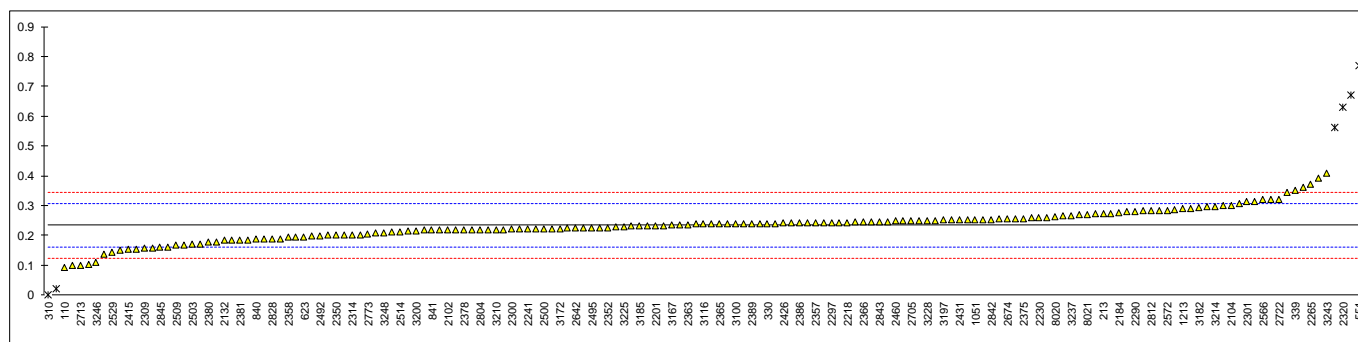
Determination of DINP – Diisononylphthalate on sample #18561; results in %M/M

lab	method	value	mark	z(targ)	lab	method	value	mark	z(targ)
110	CPSC-CH-C1001-09.3	0.0924		-3.78	2372		0.2014		-0.86
213	CPSC-CH-C1001-09.3	0.271818	C	1.02	2375	ISO14389	0.256		0.60
230	CPSC-CH-C1001-09.3	0.2605		0.72	2378	CPSC-CH-C1001-09.4	0.2188		-0.40
310	In house	0	R(0.01)	-6.25	2379	EN14372	0.185		-1.30
330	In house	0.24	C	0.17	2380	CPSC-CH-C1001-09.3	0.17674		-1.52
339	In house	0.3506		3.13	2381	CPSC-CH-C1001-09.3	0.18455		-1.31
348	CPSC-CH-C1001-09.3	0.219		-0.39	2382	In house	0.23801		0.12
362	-----	-----		-----	2384	CPSC-CH-C1001-09.3	0.09842	C	-3.62
523	-----	-----		-----	2386	CPSC-CH-C1001-09.3	0.241		0.20
551	CPSC-CH-C1001-09.3	0.768031	R(0.01)	14.30	2389		0.2397		0.16
623	CPSC-CH-C1001-09.3	0.196		-1.01	2390	CPSC-CH-C1001-09.3	0.2371		0.09
826	-----	-----		-----	2415	CPSC-CH-C1001-09.3	0.1525		-2.17
840	ISO14389	0.187		-1.25	2422	-----	-----		-----
841	CPSC-CH-C1001-09.3	0.21727		-0.44	2425	ISO14389	0.2199		-0.37
1051	CPSC-CH-C1001-09.4	0.2522		0.50	2426	CPSC-CH-C1001-09.3	0.2406		0.19
1213		0.2881		1.46	2431	CPSC-CH-C1001-09.3	0.2517		0.48
2102	In house	0.218		-0.42	2432	ISO14389	0.2178		-0.42
2104	CPSC-CH-C1001-09.3	0.30		1.78	2442	In house	0.217		-0.44
2115	CPSC-CH-C1001-09.3	0.0219	R(0.05)	-5.66	2453	-----	-----		-----
2120	CPSC-CH-C1001-09.3	0.2903		1.52	2459	ISO14389	0.313		2.12
2129		0.345		2.98	2460	CPSC-CH-C1001-09.3	0.2478	C	0.38
2131	-----	-----		-----	2462	CPSC-CH-C1001-09.4	0.218		-0.42
2132	CPSC-CH-C1001-09.4	0.1840		-1.33	2475	In house	0.2279		-0.15
2137	-----	-----		-----	2476	CPSC-CH-C1001-09.3	0.248025	C	0.39
2139	CPSC-CH-C1001-09.3	0.256		0.60	2489	CPSC-CH-C1001-09.3	0.2490		0.41
2146	-----	-----		-----	2492	In house	0.1993		-0.92
2159	ISO14389	0.307		1.96	2495	ISO14389	0.22480		-0.24
2165	CPSC-CH-C1001-09.4	0.2532		0.52	2497	CPSC-CH-C1001-09.3	0.1884		-1.21
2170	CPSC-CH-C1001-09.3	0.2865		1.41	2500	CPSC-CH-C1001-09.3	0.2215		-0.32
2184	ISO8124-6	0.2751		1.11	2503		0.1693		-1.72
2190		0.282		1.29	2504	CPSC-CH-C1001-09.4	0.360		3.38
2201	CPSC-CH-C1001-09.3	0.2331		-0.01	2507	-----	-----		-----
2202	-----	-----		-----	2509		0.166		-1.81
2213	CPSC-CH-C1001-09.3	0.2204		-0.35	2510	-----	-----		-----
2218	CPSC-CH-C1001-09.3	0.2436		0.27	2511	CPSC-CH-C1001-09.3	0.224		-0.26
2222	In house	< 0.05	f-?	<-4.91	2514	ISO14389	0.2106		-0.62
2228	CPSC-CH-C1001-09.3	0.2495	C	0.43	2522	CPSC-CH-C1001-09.3	0.279		1.21
2230		0.260		0.71	2529	CPSC-CH-C1001-09.4	0.14364		-2.41
2232	In house	0.321	C	2.34	2532	CPSC-CH-C1001-09.3	0.2582		0.66
2236	CPSC-CH-C1001-09.3	0.24273		0.24	2553	In house	0.24		0.17
2241	ISO8124-6	0.221		-0.34	2561	-----	-----		-----
2242	CPSC-CH-C1001-09.3	0.67	C,R(0.01)	11.67	2566	CPSC-CH-C1001-09.3	0.320		2.31
2250	ISO14389	0.2343		0.02	2567	CPSC-CH-C1001-09.3	0.2713		1.01
2255	-----	-----		-----	2572	CPSC-CH-C1001-09.3	0.2825		1.31
2256	CPSC-CH-C1001-09.3	0.201		-0.87	2573	CPSC-CH-C1001-09.3	0.2399		0.17
2258	-----	-----		-----	2582	CPSC-CH-C1001-09.3	<0.0050	C, f-?	<-6.11
2265	ISO14389	0.3701		3.65	2590	-----	-----		-----
2267		0.104		-3.47	2591		0.29833		1.73
2288	CPSC-CH-C1001-09.3	0.2152		-0.49	2614	CPSC-CH-C1001-09.3	0.239		0.14
2290	CPSC-CH-C1001-09.3	0.2797		1.23	2622	-----	-----		-----
2293	CPSC-CH-C1001-09.3	0.265		0.84	2642	CPSC-CH-C1001-09.3	0.2246		-0.24
2297	ISO14389	0.242		0.22	2643	-----	-----		-----
2300	ISO14389	0.22		-0.36	2674		0.2559		0.60
2301		0.312		2.10	2678		0.199		-0.93
2309	CPSC-CH-C1001-09.3	0.156		-2.08	2705	In house	0.2484		0.40
2310	CPSC-CH-C1001-09.3	0.17748		-1.50	2713	CPSC-CH-C1001-09.3	0.0998		-3.58
2311	CPSC-CH-C1001-09.3	0.1560		-2.08	2719		0.2723		1.04
2313	ISO14389	0.1710		-1.68	2720	CPSC-CH-C1001-09.3	0.2246		-0.24
2314	CPSC-CH-C1001-09.3	0.2019	C	-0.85	2722		0.3215		2.35
2316	CPSC-CH-C1001-09.3	0.1543		-2.12	2728	In house	0.1871		-1.24
2320	EN14372	0.62878	C,R(0.01)	10.57	2730	-----	-----		-----
2330	CPSC-CH-C1001-09.3	0.2218		-0.32	2740	-----	-----		-----
2347	CPSC-CH-C1001-09.3	0.2332		-0.01	2741	CPSC-CH-C1001-09.3	0.2320		-0.04
2350		0.201		-0.87	2743	-----	-----		-----
2352	CPSC-CH-C1001-09.4	0.2258		-0.21	2773	CPSC-CH-C1001-09.3	0.205		-0.77
2353	IEC62321-8	0.1940		-1.06	2774	In house	0.2512		0.47
2355	CPSC-CH-C1001-09.3	0.237		0.09	2804	In house	0.21899		-0.39
2357	CPSC-CH-C1001-09.3	0.2411		0.20	2809	CPSC-CH-C1001-09.3	0.18412		-1.32
2358	CPSC-CH-C1001-09.3	0.19373		-1.07	2812	CPSC-CH-C1001-09.3	0.282	C	1.29
2363	CPSC-CH-C1001-09.4	0.2360		0.06	2821		0.391		4.21
2365	CPSC-CH-C1001-09.4	0.23762		0.11	2824	CPSC-CH-C1001-09.3	0.2521		0.49
2366	CPSC-CH-C1001-09.3	0.2442		0.28	2826	CPSC-CH-C1001-09.3	0.225		-0.23
2369	CPSC-CH-C1001-09.3	0.242		0.22	2827	In house	0.2211		-0.33
2370	IEC62321-8	0.2074	C	-0.70	2828	CPSC-CH-C1001-09.3	0.188		-1.22

lab	method	value	mark	z(targ)	lab	method	value	mark	z(targ)
2829	CPSC-CH-C1001-09.4	0.1381		-2.56	3191	GB/T22048	0.2460		0.33
2835	EPA3545A/8270D	0.1663847	C	-1.80	3192		-----		-----
2841		-----		-----	3197	CPSC-CH-C1001-09.3	0.2511		0.47
2842	CPSC-CH-C1001-09.3	0.253626	C	0.54	3199	CPSC-CH-C1001-09.3	0.270		0.97
2843	ISO16181	0.245783		0.33	3200	CPSC-CH-C1001-09.3	0.2159		-0.47
2845		0.16		-1.97	3209	CPSC-CH-C1001-09.3	0.2027		-0.83
3100	CPSC-CH-C1001-09.3	0.23811		0.12	3210	In house	0.21953		-0.38
3116	EN14372	0.237		0.09	3213		-----		-----
3118		0.24068		0.19	3214	CPSC-CH-C1001-09.3	0.297030		1.70
3122	CPSC-CH-C1001-09.3	0.15		-2.24	3220	CPSC-CH-C1001-09.3	0.23295		-0.02
3146	In house	<0,1	f-?	<-3.57	3225	CPSC-CH-C1001-09.4	0.2299		-0.10
3150	CPSC-CH-C1001-09.3	0.5600	C,R(0.01)	8.73	3228		0.2493		0.42
3153	CPSC-CH-C1001-09.3	0.2103		-0.62	3237	In house	0.266		0.87
3154	ISO14389	0.297		1.70	3239		-----		-----
3160	ISO/TS16181	0.21884		-0.40	3243	In house	0.4103	C	4.73
3163		-----		-----	3246		0.110		-3.31
3166	In house	0.1608		-1.95	3248	In house	0.209		-0.66
3167		0.2338		0.00	8005	ST2016	0.254		0.55
3172	IS8126-6	0.2227		-0.29	8006	GB22048	0.245		0.30
3176	CPSC-CH-C1001-09.3	0.282		1.29	8007	CPSC-CH-C1001-09.4	0.241		0.20
3182	CPSC-CH-C1001-09.3	0.2935		1.60	8020	CPSC-CH-C1001-09.4	0.2628		0.78
3185	CPSC-CH-C1001-09.4	0.2320		-0.04	8021	ST2016	0.2700		0.97
3190	CPSC-CH-C1001-09.3	0.2438		0.27					
	normality	suspect							
	n	159							
	outliers	6							
	mean (n)	0.2336							
	st.dev. (n)	0.05222							
	R(calc.)	0.1462							
	st.dev.(iis)	0.03738							
	R(iis)	0.1047							

Lab 213 first reported: 2718.18
 Lab 330 first reported: 0.42
 Lab 2228 first reported: N.D.
 Lab 2232 first reported: 0.409
 Lab 2242 first reported: 0.5079
 Lab 2314 first reported: 2019.22
 Lab 2320 first reported: 0.49473
 Lab 2370 first reported: 0.02074
 Lab 2384 first reported: 9841.1897

Lab 2640 first reported: 0.388
 Lab 2476 reported: 2480.25%M/M (probably a unit error)
 Lab 2582 first reported: 2013.2
 Lab 2812 first reported: 0.0282
 Lab 2835 first reported: 0.0472515
 Lab 2842 first reported as sample #18560
 Lab 3150 first reported: 0.4658
 Lab 3243 first reported: 0.554



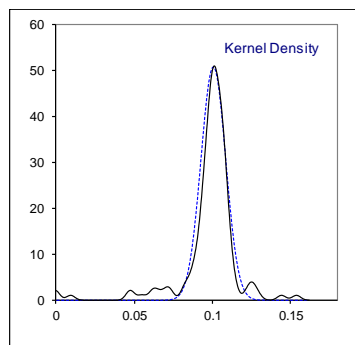
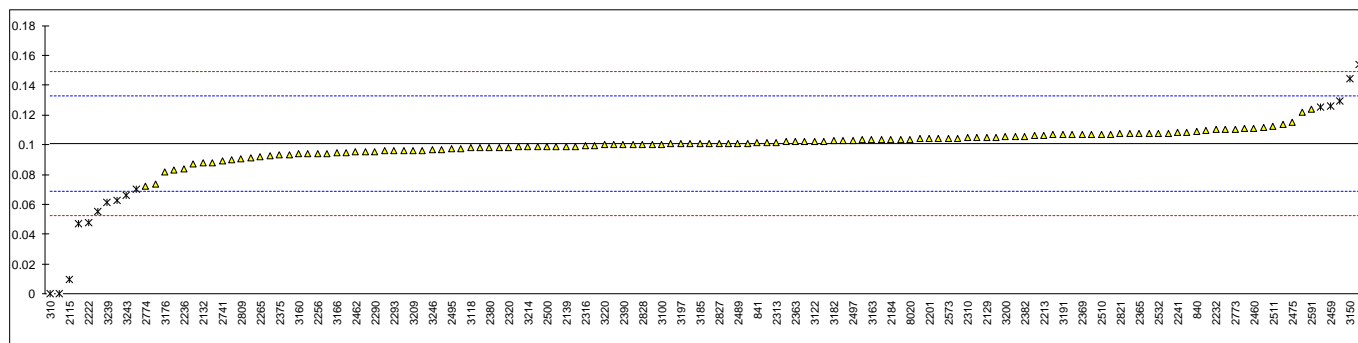
Determination of DEP – Diethylphthalate on sample #18561; results in %M/M

lab	method	value	mark	z(targ)	lab	method	value	mark	z(targ)
110		----		----	2372		0.0988		-0.12
213		----		----	2375	ISO14389	0.093		-0.48
230	CPSC-CH-C1001-09.3	0.1059		0.32	2378	CPSC-CH-C1001-09.4	0.1078		0.44
310	In house	0	R(0.01)	-6.25	2379	EN14372	0.101		0.02
330		----		----	2380	CPSC-CH-C1001-09.3	0.09794		-0.17
339	In house	0.0946		-0.38	2381	CPSC-CH-C1001-09.3	0.0935		-0.45
348	CPSC-CH-C1001-09.3	0.063	R(0.05)	-2.34	2382	In house	0.10583		0.32
362		----		----	2384	CPSC-CH-C1001-09.3	0.15366	C,R(0.01)	3.29
523		----		----	2386	CPSC-CH-C1001-09.3	0.0896		-0.69
551	CPSC-CH-C1001-09.3	0.103728		0.19	2389		0.0989	C	-0.11
623	CPSC-CH-C1001-09.3	0.087		-0.85	2390	CPSC-CH-C1001-09.3	0.1000		-0.04
826	IEC62321-8	0.11074		0.62	2415		----		----
840	ISO14389	0.109		0.51	2422	KS M1991	0.09272		-0.50
841	CPSC-CH-C1001-09.3	0.10143		0.05	2425	ISO14389	0.0995		-0.07
1051		----		----	2426	CPSC-CH-C1001-09.3	0.0960		-0.29
1213		NA		----	2431	CPSC-CH-C1001-09.3	0.0962		-0.28
2102		----		----	2432		----		----
2104	CPSC-CH-C1001-09.3	0.10		-0.04	2442		----		----
2115	CPSC-CH-C1001-09.3	0.0097	R(0.01)	-5.65	2453	ISO14389	0.122		1.32
2120	CPSC-CH-C1001-09.3	0.1079		0.45	2459	ISO14389	0.126	R(0.05)	1.57
2129		0.105		0.27	2460	CPSC-CH-C1001-09.3	0.1112		0.65
2131	In house	0.106655		0.37	2462	CPSC-CH-C1001-09.4	0.095		-0.35
2132	CPSC-CH-C1001-09.4	0.0877		-0.81	2475	In house	0.1152		0.90
2137		----		----	2476	CPSC-CH-C1001-09.3	No Capability		----
2139	CPSC-CH-C1001-09.3	0.099		-0.11	2489	CPSC-CH-C1001-09.3	0.1011		0.02
2146		----		----	2492	In house	0.0735		-1.69
2159	ISO14389	0.094		-0.42	2495	ISO14389	0.09710		-0.22
2165	CPSC-CH-C1001-09.4	0.1038		0.19	2497	CPSC-CH-C1001-09.3	0.1029		0.14
2170	CPSC-CH-C1001-09.3	0.1032		0.15	2500	CPSC-CH-C1001-09.3	0.0988		-0.12
2184	ISO8124-6	0.1038		0.19	2503		0.1024		0.11
2190		----		----	2504	CPSC-CH-C1001-09.4	n.a.		----
2201	CPSC-CH-C1001-09.3	0.1040		0.20	2507		----		----
2202		----		----	2509		----		----
2213	CPSC-CH-C1001-09.3	0.106		0.33	2510	In house	0.107		0.39
2218		----		----	2511	CPSC-CH-C1001-09.3	0.112		0.70
2222	In house	0.048	R(0.01)	-3.27	2514	ISO14389	0.1005		-0.01
2228	CPSC-CH-C1001-09.3	0.1070		0.39	2522		----		----
2230		0.102		0.08	2529		----		----
2232	In house	0.110		0.58	2532	CPSC-CH-C1001-09.3	0.1078		0.44
2236	CPSC-CH-C1001-09.3	0.08372		-1.05	2553	In house	0.099		-0.11
2241	ISO8124-6	0.108		0.45	2561		----		----
2242		----		----	2566	CPSC-CH-C1001-09.3	0.1041		0.21
2250	ISO14389	0.0986		-0.13	2567	CPSC-CH-C1001-09.3	0.1002		-0.03
2255		----		----	2572	CPSC-CH-C1001-09.3	0.0971		-0.22
2256	CPSC-CH-C1001-09.3	0.094		-0.42	2573	CPSC-CH-C1001-09.3	0.1042		0.22
2258		----		----	2582	CPSC-CH-C1001-09.3	0.10806	C	0.46
2265	ISO14389	0.0916		-0.57	2590	CPSC-CH-C1001-09.3	0.10732		0.41
2267		0.055	R(0.01)	-2.84	2591		0.12399		1.45
2288	CPSC-CH-C1001-09.3	Unmeasured		----	2614	CPSC-CH-C1001-09.3	0.091		-0.60
2290	CPSC-CH-C1001-09.3	0.0951		-0.35	2622	CPSC-CH-C1001-09.3/4	0.1255	R(0.05)	1.54
2293	CPSC-CH-C1001-09.3	0.096		-0.29	2642		----		----
2297	ISO14389	0.104		0.20	2643		----		----
2300	ISO14389	nd		----	2674		0.1050		0.27
2301		0.110		0.58	2678		0.088		-0.79
2309		----		----	2705	In house	0	R(0.01)	-6.25
2310	CPSC-CH-C1001-09.3	0.10461		0.24	2713		----		----
2311	CPSC-CH-C1001-09.3	0.1048		0.25	2719		----		----
2313	ISO14389	0.1016		0.06	2720	CPSC-CH-C1001-09.3	0.1011		0.02
2314	CPSC-CH-C1001-09.3	0.1114	C	0.66	2722		----		----
2316	CPSC-CH-C1001-09.3	0.0992		-0.09	2728		----		----
2320	EN14372	0.098368		-0.15	2730		----		----
2330	CPSC-CH-C1001-09.3	0.1134		0.79	2740		0.0979		-0.17
2347	CPSC-CH-C1001-09.3	0.1020		0.08	2741	CPSC-CH-C1001-09.3	0.0889		-0.73
2350		----		----	2743	ISO14389	0.100676		0.00
2352	CPSC-CH-C1001-09.4	0.0999		-0.05	2773	CPSC-CH-C1001-09.3	0.11		0.58
2353	IEC62321-8	--		----	2774	In house	0.0720		-1.78
2355	CPSC-CH-C1001-09.3	0.107		0.39	2804	In house	0.097035		-0.23
2357	CPSC-CH-C1001-09.3	0.1029		0.14	2809	CPSC-CH-C1001-09.3	0.09055		-0.63
2358	CPSC-CH-C1001-09.3	N/A		----	2812	CPSC-CH-C1001-09.3	0.094		-0.42
2363	CPSC-CH-C1001-09.4	0.1020		0.08	2821		0.1073		0.41
2365	CPSC-CH-C1001-09.4	0.10736		0.41	2824		----		----
2366	CPSC-CH-C1001-09.3	0.1071		0.40	2826		----		----
2369	CPSC-CH-C1001-09.3	0.107		0.39	2827	In house	0.101		0.02
2370	IEC62321-8	0.1015		0.05	2828	CPSC-CH-C1001-09.3	0.100		-0.04

lab	method	value	mark	z(targ)	lab	method	value	mark	z(targ)
2829	CPSC-CH-C1001-09.4	0.0829		-1.11	3191	GB/T22048	0.1068		0.38
2835	EPA3545A/8270D	0.0473679	C,R(0.01)	-3.31	3192		----		----
2841	In house	0.12906	R(0.05)	1.76	3197	CPSC-CH-C1001-09.3	0.1005		-0.01
2842		----		----	3199	CPSC-CH-C1001-09.3	0.070	R(0.05)	-1.91
2843		----		----	3200	CPSC-CH-C1001-09.3	0.1054		0.29
2845		----		----	3209	CPSC-CH-C1001-09.3	0.09601		-0.29
3100	CPSC-CH-C1001-09.3	0.10023		-0.03	3210	In house	0.09591		-0.30
3116		----		----	3213		----		----
3118		0.09775		-0.18	3214	CPSC-CH-C1001-09.3	0.098673		-0.13
3122	CPSC-CH-C1001-09.3	0.102		0.08	3220	CPSC-CH-C1001-09.3	0.09977		-0.06
3146	In house	0.1097		0.56	3225		----		----
3150	CPSC-CH-C1001-09.3	0.1442	R(0.01)	2.70	3228		0.0981		-0.16
3153		----		----	3237		----		----
3154	ISO14389	0.095		-0.35	3239	In house	0.06154	R(0.05)	-2.43
3160	ISO/TS16181	0.09385		-0.43	3243	In house	0.066	R(0.05)	-2.15
3163		0.1036		0.18	3246		0.097		-0.23
3166	In house	0.09436		-0.39	3248		----		----
3167		----		----	8005		----		----
3172	IS8126-6	0.1056		0.30	8006		----		----
3176	CPSC-CH-C1001-09.3	0.082		-1.16	8007		----		----
3182	CPSC-CH-C1001-09.3	0.1025		0.11	8020	CPSC-CH-C1001-09.4	0.1038		0.19
3185	CPSC-CH-C1001-09.4	0.1007		0.00	8021	ST2016	0.1010		0.02
3190	CPSC-CH-C1001-09.3	0.1042		0.22					

normality not OK
n 123
outliers 15
mean (n) 0.1007
st.dev. (n) 0.00788
R(calc.) 0.0221
st.dev.(iis) 0.01611
R(iis) 0.0451

Lab 2314 first reported: 1114.3
Lab 2384 first reported: 1536.5613
Lab 2389 first reported: 0.989
Lab 2582 first reported: 998.4
Lab 2835 first reported: 0.0396335



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)phthalate
- DNPP = Di-n-pentylphthalate
- DUP = Diundecylphthalate

Other reported Phthalates in sample #18560; results in %M/M

Lab	BBP	DEHP	DIDP	DINP	DEP	DMP	DNHP	DIBP	DPHP	DUP
110	ND	ND	ND	0.0023	----	----	ND	ND	----	----
213	----	----	----	----	----	----	----	----	----	----
230	----	----	----	----	----	----	----	----	----	----
310	0	0	0	0	0	0	0	0	0	0
330	<0.003	<0.003	<0.01	<0.01	----	----	<0.003	<0.003	----	----
339	<0.001	<0.001	<0.005	<0.005	<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	----	0.08	----	----	----	----	----	----	----	----
523	----	----	----	----	----	----	----	----	----	----
551	----	----	----	----	----	----	----	----	----	----
623	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
826	----	----	----	----	----	----	----	----	----	----
840	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.
841	----	----	----	----	----	----	----	----	----	----
1051	----	----	----	----	----	----	----	----	----	----
1213	ND	ND	ND	ND	NA	NA	ND	ND	NA	ND
2102	0	0	0	0	----	----	----	----	----	----
2104	< 0.0005	< 0.0005	< 0.003	< 0.003	< 0.0005	0.00087	< 0.0005	< 0.0005	----	< 0.003
2115	----	----	----	----	----	----	----	----	----	----
2120	----	----	----	----	----	----	----	----	----	----
2129	----	----	----	----	----	----	----	----	----	----
2131	----	----	----	----	----	----	----	----	----	----
2132	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2137	----	----	----	----	----	----	----	----	----	----
2139	----	----	----	----	----	----	----	----	----	----
2146	----	----	----	----	----	----	----	----	----	----
2159	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2165	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	----
2170	----	----	----	----	----	----	----	----	----	----
2184	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2190	<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.	----	----
2213	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2218	----	----	----	----	----	----	----	----	----	----
2222	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	NE	< 0.01	< 0.01	NE	NE
2228	ND	ND	ND	ND	ND	ND	ND	ND	NR	ND
2230	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2232	----	----	----	----	----	----	----	----	----	----
2236	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	----	----
2241	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
2242	----	----	----	----	----	----	----	----	----	----
2250	----	----	----	----	----	----	----	----	----	----
2255	----	----	----	----	----	----	----	----	----	----
2256	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2258	----	----	----	----	----	----	----	----	----	----
2265	----	0.0060	----	----	0.0047	----	----	----	----	----

Lab	BBP	DEHP	DIDP	DINP	DEP	DMP	DNHP	DIBP	DPHP	DUP
2267	----	----	----	----	----	----	----	0.023	----	----
2288	<0.01	<0.01	<0.01	<0.01	not meas.	not meas.	not meas.	<0.01	not meas.	not meas.
2290	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2293	----	----	----	----	----	----	----	----	----	----
2297	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2300	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2301	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2309	ND[<50]	ND[<50]	ND[<50]	ND[<50]	----	----	ND[<50]	ND[<50]	----	----
2310	NOT DET.	NOT DET.	NOT DET.	NOT DET.	0.00366	NOT DET.	NOT DET.	NOT DET.	NOT DET.	NOT DET.
2311	Not Det.	Not Det.	Not Det.	Not Det.	0.0042	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	----	----	----	----	0.00416	----	----	----	----	----
2316	ND	ND	ND	ND	0.0042	ND	ND	ND	----	ND
2320	<0.0016	0.00205	Not Det.	Not Det.	0.00160	<0.0016	Not Det.	<0.0016	Not Det.	Not Det.
2330	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2347	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
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	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2372	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2375	----	----	----	----	----	----	----	----	----	----
2378	----	----	----	----	----	----	----	----	----	----
2379	Not det.	Not det.	Not det.	Not det.	Not det.	Not det.	Not det.	Not det.	Not det.	Not det.
2380	----	----	----	----	----	----	----	----	----	----
2381	----	----	----	----	----	----	----	----	----	----
2382	----	----	----	----	----	----	----	----	----	----
2384	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	----	----
2386	<0,05	<0,05	<0,05	<0,05	<0,05	<0,05	<0,05	<0,05	<0,05	<0,05
2389	----	----	----	----	----	----	----	----	----	----
2390	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2415	ND	ND	----	ND	----	----	----	----	----	----
2422	----	----	----	----	----	----	----	----	----	----
2425	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2426	ND	ND	ND	ND	ND	ND	ND	ND	----	ND
2431	----	----	----	----	----	----	----	----	----	----
2432	----	----	----	----	----	----	----	----	----	----
2442	----	----	----	----	----	----	----	----	----	----
2453	----	----	----	----	----	----	----	----	----	----
2459	----	----	----	----	----	----	----	----	----	----
2460	0	0	0	0	0	0	0	0	----	----
2462	----	----	----	----	----	----	----	----	----	----
2475	----	----	----	----	----	----	----	----	----	----
2476	ND	ND	ND	455.41	No Capab.	ND	ND	ND	ND	No Capab.
2489	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2492	----	----	----	----	----	----	----	----	----	----
2495	<0.001	<0.001	<0.001	0.03630	<0.001	<0.001	<0.001	<0.001	----	----
2497	----	----	----	----	----	----	----	----	----	----
2500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2503	----	----	----	----	----	----	----	----	----	----
2504	n.d.	n.d.	n.d.	n.d.	n.a.	n.d.	n.d.	n.d.	n.d.	n.d.
2507	<0.100	<0.100	<0.100	----	----	----	----	----	----	----
2509	----	----	----	----	----	----	----	----	----	----
2510	----	----	----	----	----	----	----	----	----	----
2511	----	----	----	----	----	----	----	----	----	----
2514	----	----	----	----	----	----	----	----	----	----
2522	<0.01	<0.01	----	<0.01	----	----	<0.01	<0.01	----	----
2529	----	----	----	----	----	----	----	----	----	----
2532	NOT DET.	NOT DET.	NOT DET.	NOT DET.	NOT DET.	NOT DET.	NOT DET.	NOT DET.	NOT DET.	NOT DET.
2553	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2561	----	----	----	----	----	----	----	----	----	----
2566	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2567	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2572	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2573	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2582	----	----	----	----	----	----	----	----	----	----
2590	----	----	----	----	----	----	----	----	----	----
2591	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	----	----
2614	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2622	----	----	----	----	----	----	----	----	----	----

Lab	BBP	DEHP	DIDP	DINP	DEP	DMP	DNHP	DIBP	DPHP	DUP
2642	<0.03	<0.03	<0.03	<0.03	----	----	----	----	----	----
2643	----	----	----	----	----	----	----	----	----	----
2674	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	----
2678	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	----	----
2705	0	0	0	0	0	0	----	----	----	----
2713	<50	<50	<50	<50	----	----	----	<50	----	----
2719	----	----	----	----	----	----	----	----	----	----
2720	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2722	----	----	----	----	----	----	----	----	----	----
2728	ND	ND	ND	ND	----	----	----	----	----	----
2730	----	----	----	----	----	----	----	----	----	----
2740	----	----	----	----	----	----	----	----	----	----
2741	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2743	----	----	----	----	0.0027705	----	----	----	----	----
2773	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2774	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	----	< 0.005
2804	----	----	----	----	----	----	----	----	----	----
2809	----	----	----	----	----	----	----	----	----	----
2812	----	----	----	----	----	----	----	----	----	----
2821	<0,02	<0,02	<0,05	<0,05	<0,05	<0,05	<0,02	<0,05	n. a.	<0,05
2824	ND	ND	ND	ND	----	----	----	----	----	----
2826	----	----	----	----	----	----	----	----	----	----
2827	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2828	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2829	----	----	----	----	----	----	----	----	----	----
2835	----	----	----	----	0.0012968	----	----	----	----	----
2841	0	0.00073	----	----	0.00086	0.00094	----	0.00030	----	----
2842	----	----	----	----	----	----	----	----	----	----
2843	----	----	----	----	----	----	----	----	----	----
2845	----	----	----	----	----	----	----	----	----	----
3100	<0.010%	<0.010%	<0.010%	<0.010%	<0.010%	<0.010%	<0.010%	<0.010%	<0.010%	<0.010%
3116	----	----	----	----	----	----	----	----	----	----
3118	ND	ND	ND	ND	ND	----	ND	ND	ND	ND
3122	<0.0025	<0.0025	<0.0025	<0.0025	----	----	<0.0025	<0.0025	----	----
3146	<0,005	<0,005	<0,005	<0,02	<0,005	<0,005	<0,005	<0,005	----	----
3150	----	----	----	----	0.0029	----	----	----	----	----
3153	----	----	----	----	----	----	----	----	----	----
3154	----	----	----	----	----	----	----	----	----	----
3160	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
3163	----	0.0006	----	----	0.0006	0.0017	----	0.0005	----	----
3166	<0.005	<0.005	----	----	<0.005	<0.005	<0.005	<0.005	----	----
3167	----	----	----	----	----	----	----	----	----	----
3172	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3176	----	----	----	----	----	----	----	----	----	----
3182	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3185	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	----	----
3190	----	----	----	----	----	----	----	----	----	----
3191	----	----	----	----	----	----	----	----	----	----
3192	<0,01	<0,01	----	----	----	----	----	<0,01	<0,01	----
3197	ND	ND	ND	0.0334	ND	ND	ND	ND	ND	ND
3199	----	----	----	----	----	----	----	----	----	----
3200	----	----	----	----	----	----	----	----	----	----
3209	----	----	----	----	----	----	----	----	----	----
3210	<0.005	<0.005	<0.005	0.00595	<0.005	<0.005	<0.005	<0.005	----	<0.005
3213	----	----	----	----	----	----	----	----	----	----
3214	----	----	----	----	----	----	----	----	----	----
3220	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3225	ND	ND	----	ND	----	----	ND	ND	----	----
3228	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	----
3237	----	----	----	----	----	----	----	----	----	----
3239	----	----	----	----	----	----	----	----	----	----
3243	< 0,017	< 0,016	< 0,040	< 0,031	< 0,056	< 0,010	< 0,018	< 0,017	< 0,018	< 0,037
3246	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
3248	----	----	----	----	----	----	----	----	----	----
8005	----	----	----	----	----	----	----	----	----	----
8006	----	----	----	----	----	----	----	----	----	----
8007	----	----	----	----	----	----	----	----	----	----
8020	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
8021	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Other reported Phthalates in sample #18561; results in %M/M

Lab	DBP	DIDP	DNOP	DCHP	DMP	DNHP	DIBP	DPHP	DNPP	DUP
110	ND	0.0048	ND	ND	----	ND	ND	----	ND	----
213	----	----	----	----	----	----	----	----	----	----
230	----	----	----	----	----	----	----	----	----	----
310	0	0	0	0	0	0	0	0	0	0
330	<0.003	<0.01	<0.01	<0.003	----	<0.003	<0.003	----	<0.003	----
339	<0.001	0.0168	<0.001	<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	----	----	----	0.154	----	----	----	----	----	----
523	----	----	----	----	----	----	----	----	----	----
551	----	----	----	----	----	----	----	----	----	----
623	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
826	----	----	----	----	----	----	----	----	----	----
840	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.	not det.
841	----	----	----	----	----	----	----	----	----	----
1051	----	----	----	----	----	----	----	----	----	----
1213	ND	ND	ND	ND	NA	ND	ND	NA	ND	ND
2102	0	0	0	----	----	----	----	----	----	----
2104	0.0013	< 0.003	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	----	< 0.0005	< 0.003
2115	----	0.0036	----	----	----	----	----	----	----	----
2120	----	----	----	----	----	----	----	----	----	----
2129	0.002	----	----	----	----	----	----	----	----	----
2131	----	----	----	----	----	----	----	----	----	----
2132	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2137	----	----	----	----	----	----	----	----	----	----
2139	----	----	----	----	----	----	----	----	----	----
2146	----	----	----	----	----	----	----	----	----	----
2159	<0.005	0.021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2165	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	----
2170	----	----	----	----	----	----	----	----	----	----
2184	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
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.	----	----	----
2213	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2218	----	----	----	----	----	----	----	----	----	----
2222	< 0.01	< 0.05	< 0.01	0.026	NE	< 0.01	< 0.01	NE	NE	NE
2228	ND	ND	ND	ND	ND	ND	ND	NR	ND	ND
2230	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2232	----	----	----	----	----	----	----	----	----	----
2236	<0.0050	<0.0050	0.00756	<0.0050	<0.0050	<0.0050	<0.0050	----	<0.0050	----
2241	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
2242	----	----	----	----	----	----	----	----	----	----
2250	----	----	----	----	----	----	----	----	----	----
2255	----	----	----	----	----	----	----	----	----	----
2256	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2258	----	----	----	----	----	----	----	----	----	----
2265	----	----	----	----	----	----	----	----	----	----
2267	0.01	----	----	----	----	----	0.02	----	----	----
2288	<0.01	<0.03	<0.01	not meas.	not meas.	not meas.	<0.01	not meas.	not meas.	not meas.
2290	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2293	----	----	----	----	----	----	----	----	----	----
2297	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2300	0.0017	nd	nd	nd	nd	nd	nd	nd	nd	nd
2301	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2309	<50	<50	<50	----	----	<50	<50	----	----	----
2310	0.00311	NOT DET.	NOT DET.	NOT DET.	NOT DET.	NOT DET.	NOT DET.	NOT DET.	NOT DET.	NOT DET.
2311	0.0032	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	0.0036	----	----	----	----	----	----	----	----	----
2316	0.0044	ND	ND	ND	ND	ND	ND	----	ND	ND
2320	0.00172	Not Det.	Not Det.	Not Det.	Not Det.	Not Det.	Not Det.	Not Det.	Not Det.	Not Det.
2330	ND	0.0062	ND	ND	ND	ND	ND	ND	ND	ND
2347	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
2350	----	----	----	----	----	----	----	----	----	----
2352	----	----	----	----	----	----	----	----	----	----
2353	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/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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
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	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

Lab	DBP	DIDP	DNOP	DCHP	DMP	DNHP	DIBP	DPHP	DNPP	DUP
2372	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2375	----	0.017	----	----	----	----	----	----	----	----
2378	----	----	----	----	----	----	----	----	----	----
2379	Not det.	Not det.	Not det.	Not det.	Not det.	Not det.	Not det.	Not det.	Not det.	Not det.
2380	----	----	----	----	----	----	----	----	----	----
2381	----	----	----	----	----	----	----	----	----	----
2382	----	----	----	----	----	----	----	----	----	----
2384	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	----	----	----
2386	<0,05	<0,05	<0,05	<0,05	<0,05	<0,05	<0,05	<0,05	<0,05	<0,05
2389	----	----	----	----	----	----	----	----	----	----
2390	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2415	ND	----	----	ND	----	----	----	----	ND	----
2422	----	----	----	----	----	----	----	----	----	----
2425	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2426	ND	ND	ND	ND	ND	ND	ND	----	ND	ND
2431	----	----	----	----	----	----	----	----	----	----
2432	----	----	----	----	----	----	----	----	----	----
2442	----	----	----	----	----	----	----	----	0.0443	----
2453	----	----	----	----	----	----	----	----	----	----
2459	----	----	----	----	----	----	----	----	----	----
2460	0	0	0	0	0	0	0	0	0	0
2462	----	----	----	----	----	----	----	----	----	----
2475	----	----	----	----	----	----	----	----	----	----
2476	ND	ND	ND	No Capab.	ND	ND	ND	ND	No Capab.	No Capab.
2489	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2492	----	0.0204	----	----	----	----	----	----	----	----
2495	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	----	<0.001	----
2497	----	0.0144	----	----	----	----	----	----	----	----
2500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2503	----	----	----	----	----	----	----	----	----	----
2504	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2507	<0.100	<0.100	----	----	----	----	----	----	----	----
2509	----	0.012	----	----	----	----	----	----	----	----
2510	----	----	----	----	----	----	----	----	----	----
2511	----	----	----	----	----	----	----	----	----	----
2514	----	----	----	----	----	----	----	----	----	----
2522	<0.01	----	----	<0.01	----	<0.01	<0.01	----	<0.01	----
2529	----	----	----	----	----	----	----	----	----	----
2532	NOT DET.	NOT DET.	NOT DET.	NOT DET.	NOT DET.	NOT DET.	NOT DET.	NOT DET.	NOT DET.	NOT DET.
2553	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2561	----	----	----	----	----	----	----	----	----	----
2566	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2567	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2572	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2573	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2582	----	----	----	----	----	----	----	----	----	----
2590	----	----	----	----	----	----	----	----	----	----
2591	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	----	----	----
2614	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2622	----	----	----	----	----	----	----	----	----	----
2642	<0.03	<0.03	<0.03	----	----	----	----	----	----	----
2643	----	----	----	----	----	----	----	----	----	----
2674	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	----
2678	n.d	n.d	n.d	n.d	n.d	n.d	n.d	----	n.d	----
2705	0.0015	0	----	----	0	----	----	----	----	----
2713	<50	<50	<50	----	----	----	<50	----	----	----
2719	----	----	----	----	----	----	----	----	----	----
2720	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2722	----	----	----	----	----	----	----	----	----	----
2728	ND	ND	ND	----	----	----	----	----	----	----
2730	----	----	----	----	----	----	----	----	----	----
2740	----	----	----	----	----	----	----	----	----	----
2741	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2743	----	----	----	----	----	----	----	----	----	----
2773	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2774	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	----	< 0.005	< 0.005
2804	----	----	----	----	----	----	----	----	----	----
2809	----	----	----	----	----	----	----	----	----	----
2812	----	----	----	----	----	----	----	----	----	----
2821	<0,02	<0,05	<0,05	<0,05	<0,05	<0,02	<0,05	n. a.	<0,05	<0,05
2824	ND	ND	ND	----	----	----	----	----	----	----
2826	----	----	----	----	----	----	----	----	----	----
2827	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2828	<0.005	0.013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2829	----	----	----	----	----	----	----	----	----	----
2835	----	----	----	----	----	----	----	----	----	----
2841	0.00105	----	0	0	0.00013	----	0.00015	----	----	----

Lab	DBP	DIDP	DNOP	DCHP	DMP	DNHP	DIBP	DPHP	DNPP	DUP
2842	----	----	----	----	----	----	----	----	----	----
2843	----	----	----	----	----	----	----	----	----	----
2845	----	----	----	----	----	----	----	----	----	----
3100	<0.010%	<0.010%	<0.010%	<0.010%	<0.010%	<0.010%	<0.010%	<0.010%	<0.010%	<0.010%
3116	----	----	----	----	----	----	----	----	----	----
3118	ND	ND	ND	ND	----	ND	ND	ND	ND	ND
3122	<0.0025	0.031	<0.0025	<0.0025	----	<0.0025	<0.0025	----	<0.0025	----
3146	<0,005	<0,02	<0,005	<0,005	<0,005	<0,005	<0,005	----	<0,005	----
3150	0.0033	0.0205	----	----	----	----	0.0019	----	----	----
3153	----	----	----	----	----	----	----	----	----	----
3154	----	----	----	----	----	----	----	----	----	----
3160	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
3163	----	----	----	----	----	----	0.0002	----	----	----
3166	<0.005	----	<0.005	----	<0.005	<0.005	<0.005	----	<0.005	----
3167	----	----	----	----	----	----	----	----	----	----
3172	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3176	----	----	----	----	----	----	----	----	----	----
3182	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3185	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	----	<0.0100	----
3190	----	----	----	----	----	----	----	----	----	----
3191	----	----	----	----	----	----	----	----	----	----
3192	<0,01	----	<0,01	----	----	----	<0,01	<0,01	----	----
3197	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3199	----	0.017	----	----	----	----	----	----	----	----
3200	----	----	----	----	----	----	----	----	----	----
3209	----	----	----	----	----	----	----	----	----	----
3210	<0.005	0.02860	<0.005	<0.005	<0.005	<0.005	<0.005	----	<0.005	<0.005
3213	----	0.02668	----	----	----	----	----	----	----	----
3214	----	----	----	----	----	----	----	----	----	----
3220	0.04152	ND	ND	ND	ND	ND	ND	ND	ND	ND
3225	ND	----	----	ND	----	ND	ND	----	ND	----
3228	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	----
3237	----	----	----	----	----	----	----	----	----	----
3239	----	----	2.13469	----	0.02452	----	----	----	----	----
3243	< 0,013	< 0,040	< 0,013	< 0,014	< 0,010	< 0,018	< 0,017	< 0,018	< 0,012	< 0,037
3246	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
3248	----	----	----	----	----	----	----	----	----	----
8005	----	----	----	----	----	----	----	----	----	----
8006	----	----	----	----	----	----	----	----	----	----
8007	----	----	----	----	----	----	----	----	----	----
8020	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
8021	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

APPENDIX 3

Analytical details

Lab	Accred. for ISO/IEC17025 for the rep. component(s)	Sample used	Final estimated particle size	Sample intake used (grams)	Solvent (mixture) used to release	Extraction time (min)	Extraction temp. (°C)
110	Yes	Further Cut	2mm x 2mm	0.5 g	THF Hex 1:2	120 min	Room Temp.
213	No	Used as received		0,05	THF & Hexane	One hour	60°C
230	Yes	Further Cut		0.1	THF	60	60
310	No	Used as received		0,5631	THF	overnight	20
330	No	Used as received		0.5			
339	---	---					
348	No	Further Cut	2x2x2 mm	0.5	THF	60	60±5°C
362	---	---					
523	---	---					
551	Yes	---					
623	Yes	Further Cut	2 mm x 2 mm	0.1 g	THF	60 mins	60 C
826	No	Further Grinded			THF	60min	
840	Yes	Further Cut	2*2mm	0.5g	THF-HEXAN	1HOUR	60 C
841	Yes	Further Cut	0.3 x 0.3 mm	0.05	THF, n-Hexane	60	60
1051	Yes	Further Cut	Less than 2mm	0.1g	THF + Hexane	120 mins	35 C
1213	Yes	Further Cut	< 2 mm	1 g	THF: Hexan (1:2)	1h	Not control temp.
2102	Yes	Used as received		0.15	THF/hexane	30	ambient
2104	Yes	Used as received	-	2	Dichloromethane	-	Roomtemp
2115	Yes	Used as received			THF		
2120	Yes	Further Cut	2 mm x 2 mm	0,10 g	Hexane/THF	2,5 h	60°C
2129	Yes	Used as received		0,5 g	THF	60 min	60 °C
2131	Yes	Used as received		0.5 g	THF/Hexane	60 min	60 °C
2132	Yes	Used as received	2 mm x 2 mm	0.05 g	THF / Hexane	30 mins	Room temp. (21 C)
2137	Yes	Used as received					
2139	Yes	Further Cut	0.2-0.3mm	0.05g	Hexane	60minutes	60
2146	---	---					
2159	Yes	Further Cut	5 mm x 5 mm	0.3	THF	60	60
2165	Yes	Further Cut					
2170	Yes	Further Cut	less than 2mm	0.0518	THF and Hexane	30mins	40degree
2184	Yes	Used as received	NA	NA	Dichloromethane	360min	NA
2190	No	Further Cut	0.1 - 0.2 cm ²	1 gr	dichloromethane	6H	reflux temperature
2201	Yes	Further Cut	1.5*1.5mm	0.05g	THF:Hexane (1:2)	2H	Room Temperature
2202	Yes	Used as received	-	~0.5 g	THF/Tol./Hexane	6hr	Room temperature
2213	Yes	Further Cut	Approx.2x2 mm	0.3 gm	THF and n-hexane	1 hour	Room temp. ~25°C
2218	Yes	Further Cut	2mm	0.05g	THF and Hexane	30 mins	not specify
2222	No	Used as received		1.0623	THF and Isooctan	30	40
2228	Yes	Used as received	2x3 and 3x4 mm	0.5 g	THF and Acetonitrile	2 hours	40 °C
2230	Yes	Further Cut	2mm x 2mm	0.3g	THF	120	40
2232	Yes	Used as received	5mm*5mm*5mm	0.3	THF:ACN(1:2)	90	40
2236	Yes	Further Cut	2 mm x 2 mm	0.0500	THF	90 min.	70 Degrees Celsius
2241	Yes	Further Cut	1mm*1mm	0.5g	DCM	1hour	room temperature
2242	Yes	Further Cut	1 mm	0.05	THF	120	25
2250	---	---		0.3	THF	60	60
2255	---	---					
2256	Yes	Further Cut	2mm*2mm	0.1	THF	60 min.	40 C
2258	---	---					
2265	No	Further Cut	2-3mm	0,3g	10ml THF for extrac.	60 min	60 °C
2267	---	---					
2288	Yes	Further Grinded	powder	0.1	THF	1 hour	room temperature
2290	---	---					
2293	Yes	Further Cut	1.08 + 0.89 mm	0.050	THF, hexane (5:10)	180 min.	room temperature
2297	Yes	Used as received	<5mm	0.3g	THF+hexane	1hr	60
2300	Yes	Further Cut	0.5 mm	0.3 g	THF	60 min.	60
2301	Yes	Further Cut	2 mm x 2 mm	0.3	THF	60	40
2309	Yes	Further Grinded	250 micron	0.1	THF + HEXANE	35 MIN	60 degree
2310	Yes	Used as received		0.1g	THF & hexane	1 hr	60°C
2311	Yes	Further Cut	<2mm x 2mm	0.1	THF + Hexane	60min	60°C
2313	Yes	Further Cut	approx.. 2X2mm	0.3	THF and n-Hexane	1 hour	60 °C
2314	Yes	Further Cut	3mmX3mm	0.1g	THF+HEXANE	60min	60deg
2316	Yes	Further Cut	2 mm	0.1 g	THF	60 min.	60° C
2320	Yes	Used as received		0.50000	diethyl ether/hexane	6 hr	70
2330	Yes	Further Cut	2 x 2 mm	0.05 g	THF / Hexane	150 min	50 °C
2347	Yes	Further Cut	2mm*2mm*2mm	0.3g	THF	30min	40
2350	Yes	Further Cut	2mm X 2mm	0.3 g	THF + ACN	60 min	40

Lab	Accred. for ISO/IEC17025 for the rep. component(s)	Sample used	Final estimated particle size	Sample intake used (grams)	Solvent (mixture) used to release	Extraction time (min)	Extraction temp. (°C)
2352	Yes	Further Cut	2*2*2	0.1g	THF:Hexane=1:2	30mins	Ambient
2353	Yes	Used as received	3 x 3 x 3mm	~0.3g	ACN, THF	60 min.	50°C
2355	Yes	Further Cut	2*2mm	0.1g	THF&n-hexane	30min	25°C
2357	Yes	Further Cut	2mm*2mm	0.05	THF&n-Hexane	30	room temprature
2358	Yes	Used as received	3 x 3 x 3mm	~0.05g	THF, n-hexane	90 mins	Room temperature
2363	No	Further Cut	2mm*2mm	0.1g	THF	60min	60
2365	Yes	Further Cut	2mm*2mm*2mm	0.1g	THF and n-hexane.	60 min	Room temperature.
2366	Yes	Further Cut	2mm*2mm*2mm	0.1g	THF and hexane	30min	RT
2369	---	---	---	---	---	---	---
2370	Yes	Used as received	2 x 2 x 2 mm	0.3 g	THF	60 min	room temperature
2372	Yes	Used as received	2mm	1	Ethyl ether	30	140
2375	Yes	Further Cut	Small size	0.1	THF/ Hexane	60 min	60°C
2378	Yes	Further Cut	2*2*2	0.1g	THF:Hexane=1:2	30mins	Ambient
2379	Yes	Further Cut	2 mm x 2 mm	0.5 gram	Diethyl ether	6 hours	60 degree
2380	Yes	Used as received	(2-3)X(2-3) mm	0.1 g	THF	60 min	60 °C
2381	Yes	Further Cut	2mm X 3mm	0.1	n-Hexan & THF	60	60
2382	No	Further Cut	3*3mm	0.1g	THF N-hexane	60min	60
2384	Yes	Further Grinded	<500um	0.1	THF: Hexane	60min	60
2386	Yes	Used as received	---	0,5	THF	60 min	60°C
2389	---	---	---	---	---	---	---
2390	Yes	Further Cut	2 mm X 2 mm	0.5 gm	THF : n-Hexane	60 min	60 C
2415	Yes	Further Cut	2mm x 2mm	0.15g	THF+n-Hexane	60 min	60 C
2422	Yes	Used as received	---	0.3 g	THF	30 min	40 °C
2425	Yes	Further Cut	2mm X 2mm	0.3 g	THF : n-Hexane	60 min.	60° C
2426	Yes	Further Cut	2*2mm	0.06	THF	30	Room Temperature
2431	Yes	Further Cut	less than 2mm	0.05 G	5 ML THF	60 MINS	w/o monitoring
2432	No	Further Cut	0.2mm	0.1	THF+acetonitrile	30	40
2442	Yes	Further Cut	2.5mm	0.2g	Acetonitrile	30 min	40
2453	Yes	Further Cut	3-4 mm	0.060	THF/n-Hexan	60	60
2459	Yes	Used as received	4x4mm	0.3	n-hexane:THF (2:1)	60	60
2460	Yes	Further Cut	1 * 1 mm	0.05	THF/HEXANE	60	26
2462	---	---	---	---	---	---	---
2475	---	---	---	---	---	---	---
2476	Yes	Used as received	Same as receiv.	0.15	THF/ Hexane	40	Room Temperature
2489	Yes	Further Cut	<2 mm	0.1006	THF	30	25 Degree
2492	Yes	Used as received	0.5cm	0.3	THF	60min	60
2495	Yes	Used as received	---	0.15	THF	60	60
2497	Yes	Used as received	---	0.1	THF	60	40
2500	Yes	Used as received	2mm x 2mm	0.3	THF/ACN	120	40
2503	Yes	Further Cut	---	0.05	THF	90	70
2504	Yes	Further Cut	2 mm x 2 mm	0.05 g.	THF : Heaxane	30 min.	n.a.
2507	No	Further Grinded	< 0.2 mm	0.05 g	THF : Hexane 1:2	30 min	35°C
2509	---	---	---	---	---	---	---
2510	No	Used as received	Used as receiv.	0.05	THF	30	40
2511	Yes	Used as received	---	0.1	---	---	---
2514	Yes	Further Cut	2.0 mm	0.054	THF and n-Hexane	60±5	60±5
2522	Yes	Further Cut	Less than 2mm	0.1 g	THF	150 min	Room temperature
2529	No	Further Cut	1-2mm	0.0500g	THF, acetonitrile	45 mins	23C
2532	Yes	Further Cut	2MM*2MM	0.1G	THF/n-HEXANE	30 MIN	ROOM TEMP.
2553	Yes	Further Cut	2mm x 2mm	0.3012	THF:ACN	30 min.	40
2561	---	---	---	---	---	---	---
2566	Yes	Further Cut	2mmX2mm	0.3 gm	THF and Acetonitrile	30 min	40C
2567	Yes	Further Cut	2mm X 2mm	-	THF & n-Hexane	30 min	40C
2572	---	---	---	---	---	---	---
2573	Yes	Used as received	Used as receiv.	0.5g	THF/Hexane	30min	40°C
2582	Yes	Further Cut	1mm	0.5	THF	30	40
2590	Yes	Used as received	---	0.3	thf/hexane	1 h	-
2591	Yes	Further Cut	---	0.1 g	THF	120 min	---
2614	Yes	Used as received	2mm *2mm	0.3012	THF & Acetonitrile	30 hr	40 C
2622	No	Further Cut	4x4 mm	0.05	THF/n-hexane	30	50
2642	Yes	Further Cut	2-3 mm	0.05	THF	---	---
2643	Yes	Used as received	< 3 mm	0.3 g	hexane	60 min.	60
2674	Yes	Further Cut	---	---	---	---	---
2678	Yes	Further Cut	1.5 mm	0.05g	hexane+THF	60 min	ambiant
2705	Yes	Used as received	---	2g	diethylether	360	50
2713	Yes	Further Cut	<2 mm to 2 mm	0.3 gr	THF/Hexan (1:2)	30 min	40 °C
2719	Yes	Further Cut	1x1mm	0.	THF +n-hexane	---	---
2720	Yes	Further Cut	2mm*2mm	0.0500g	THF with n-hexane	60min	60
2722	---	---	---	---	---	---	---

Lab	Accred. for ISO/IEC17025 for the rep. component(s)	Sample used	Final estimated particle size	Sample intake used (grams)	Solvent (mixture) used to release	Extraction time (min)	Extraction temp. (°C)
2728	Yes	Further Cut	less than 5 mm	1 gram	n-hexanes	360 min.	200
2730	No	Used as received		2	n-Hexane	4 hours	
2740	Yes	Used as received	see above	0,5 - 0,6	THF	60	60
2741	Yes	Further Cut	< 2 mm	0.5 gram	THF and n-hexane	2.5 hours	room temperature
2743	Yes	Used as received	AROUND 5mm	0.5g	THF	60	60
2773	Yes	Further Cut		0.05	THF /n-HEXANE	60	60
2774	Yes	Used as received	5 x 5 mm	0.5	THF / ACN	30	40
2804	No	Used as received	5x5mm	0.3	THF:ACN	60	60
2809	Yes	Used as received	5x5 mm	0.5	THF	60	40
2812	No	Further Cut	2 mm	0,05	THF and hexanes	30	60
2821	Yes	Used as received	1-2mm	0,5g	toluene	1h	60°C
2824	---	---					
2826	Yes	Further Cut	2 mm	0.5	THF	2 hours	Room temperature
2827	No	Used as received	As received	0.3g	THF + HEXANE	60 min.	60 deg
2828	Yes	Used as received	2mm X 2mm	0.50	THF + Hexane	30min	Room Temperature
2829	No	Further Cut	< 2x2 mm	0.075	THF	120 min	40 °C
2835	Yes	Further Cut	1 x 1 x 1	1.0	1:1 Hexane:Acetone	15	100
2841	Yes	Further Cut	1.0 mm	0.5	Ethylacet.:cyclohex.	4320	40
2842	No	Used as received		0.05	THF / hexane	1 hour	room temperature
2843	No	Used as received		0.05	THF/hexane	1 hour	room temprature
2845	Yes	Used as received				1 hour	50 C
3100	Yes	Further Cut	2mm* 2mm	0.05g	TFH	30 min+2 hr	at room temperature
3116	Yes	Used as received	5x5mm	1	Ether	360	
3118	Yes	Further Cut	2 x 2 mm	0.05	THF		
3122	Yes	Further Cut	<2 mm	0.2	methanol	40 min	
3146	Yes	Used as received	ca 1x1 mm	ca 0,5g	THF/Acetonitrile	60 min	70°C
3150	Yes	Used as received	0,25 x 0,25 cm	0,3	THF / Hexane	30	23
3153	Yes	Further Cut	2mm	0.1g	THF	150 mins	Room Temperature
3154	Yes	Used as received					
3160	No	Further Cut	1,5 x 1,5 mm	0.8 gr	n-Hex./Aceton 80:20	60 min	50°C
3163	No	Used as received	5mm	0.2	toluene	60	60
3166	Yes	Used as received		0.5g	DCM	60	ambient
3167	Yes	Further Cut	2mm	0.1g	THF	1h	
3172	Yes	Further Cut	1mm	0.15	THF:ACN 1:2	60	25°C
3176	Yes	Used as received	-	0,5	THF/CAN	30	room temperature
3182	Yes	Further Grinded	500 µm	0.05 g	Hexane: THF = 2:1	90 mins.	40 C
3185	Yes	Further Cut	About 2*2mm	0.5g	THF and n-hexane	30mins	NA
3190	Yes	Further Cut	<2mm	0.05	THF	60	60
3191	Yes	Further Cut	2*2 / 5*5mm	0.05/1.0	THF / DCM	30/180 min	room temp. / 80°C
3192	Yes	Further Cut	< 0,5 mm	0,2	diethyl ether	60	20
3197	Yes	Further Cut	2 mm x 2 mm	0,1 g	THF	60 min	Room temperature
3199	Yes	Further Grinded	2mm.	0.50	THF	120, 120	40
3200	Yes	Used as received	0.5*0.5CM	0.05G	THF+n-hexane	30min	Room temperature
3209	Yes	Used as received		0.05	THF	60	40
3210	Yes	Further Cut	2-3 mm	0.5 gram	THF	60 min	50°C
3213	Yes	Further Grinded	< 500 um	0.2 g	30 mL	180 min	not set
3214	Yes	Further Cut	2 mm* 2mm	0.5g	THF and Hexane	60	70
3220	Yes	Further Cut	less than 1mm	0.5gm	THF, Hexane	30min	Room Temperature
3225	Yes	Further Cut	2mm x 2mm	0.2	THF:n-hexane	60	70
3228	Yes	Further Cut					
3237	Yes	Used as received	as received	0,2 gram	THF and acetonitrile	30 min	40 C
3239	Yes	Further Grinded	Less than 50mm	1.015	Methylene Chloride	4 Hours	80
3243	Yes	Used as received	1 mm	1 g	Dichlormethane	30 min	22 °C
3246	---	---					
3248	Yes	Further Cut	1mm x 1mm	0.05g	THF, ACN	1hour	Room temperature
8005	Yes	Used as received	5x5mm	1	Acetone + Hexane	720	40
8006	Yes	Used as received	5x5mm	1	Dichloromethane	360	
8007	Yes	Used as received	5x5mm	1	THF	150	40
8020	Yes	Used as received	N.A.	N.A.	N.A.	N.A.	N.A.
8021	Yes	Used as received	N.A.	N.A.	Acetone:n-hex. (3:7)	N.A.	40 +/- 2

APPENDIX 4**Number of participating laboratories per country**

6 labs in BANGLADESH
1 lab in BRAZIL
1 lab in BULGARIA
3 labs in CAMBODIA
1 lab in DENMARK
1 lab in EGYPT
1 lab in FINLAND
7 labs in FRANCE
13 labs in GERMANY
2 labs in GUATEMALA
21 labs in HONG KONG
15 labs in INDIA
4 labs in INDONESIA
1 lab in IRELAND
8 labs in ITALY
1 lab in JAPAN
8 labs in KOREA
1 lab in LUXEMBOURG
1 lab in MALAYSIA
1 lab in MAURITIUS
3 labs in MEXICO
1 lab in MOROCCO
30 labs in P.R. of CHINA
4 labs in PAKISTAN
2 labs in PORTUGAL
4 labs in SINGAPORE
5 labs in SPAIN
3 labs in SRI LANKA
1 lab in SWITZERLAND
5 labs in TAIWAN R.O.C.
4 labs in THAILAND
4 labs in THE NETHERLANDS
2 labs in TUNISIA
10 labs in TURKEY
7 labs in U.S.A.
1 lab in UNITED KINGDOM
10 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	= probably an error in calculations
W	= test result withdrawn on request of participant
ex	= test result excluded from statistical evaluation
n.a.	= not applicable
n.e.	= not evaluated
n.d.	= not detected
fr.	= first reported
f-?	= possible false positive test result?

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