

Table 1: Results and z-Scores for Benzylbutyl Phthalate in Sunflower Oil Test Material

laboratory number	analyte			
	benzylbutyl phthalate			
	assigned value 6.13 mg/kg			
	result mg/kg	corrected for recovery	% recovery	z-score
001	6.8	y	106	0.9
002	6.1	No	85	0.0
003	7.24	yes	93.53	1.5
004	6.15	yes	110	0.0
005	3.57	No	No	-3.4
006	6.43	yes	86	0.4
007	6.0	YES	85.5	-0.2
008	6.35	No		0.3
009	5.9	no		-0.3
010	6.2	No	NA	0.1
011	12.7	no		8.8
012	5.11	No		-1.4
013	8.184	No	98.5	2.8
014	6.26	No	95	0.2
015	5.9	No		-0.3
016				
017	6.7	No	109	0.8
018	5.46	No		-0.9
019				
020	2.15	no		-5.3

z-scores outside the satisfactory range, i.e. $|z| > 2$, are shown in **bold**

Table 1 (continued): Results and z-Scores for Benzylbutyl Phthalate in Sunflower Oil Test Material

laboratory number	analyte			
	benzylbutyl phthalate			
	assigned value 6.13 mg/kg			
	result mg/kg	corrected for recovery	% recovery	z-score
021	8.20	no		2.8
022	67.0	NO		81.6
023	6.7			0.8
024	5.2	No		-1.2
025	5.6	No		-0.7
026	5.66	Yes	97	-0.6
027	5.1	Yes		-1.4
028	5.3	Yes		-1.1
029	5.2	y		-1.2
030	7.5	Yes	140	1.8
031	7.55	no		1.9
032	5.14	No	91.9	-1.3
033	< 50	NO		
034	6.0	yes	78.8	-0.2
035	<30	no		

z-scores outside the satisfactory range, i.e. $|z| > 2$, are shown in **bold**

Table 2: Results and z-Scores for Diisononyl Phthalate in Sunflower Oil Test Material

laboratory number	analyte			
	diisononyl phthalate			
	assigned value 28.6 mg/kg			
	result mg/kg	corrected for recovery	% recovery	z-score
001	42.4	y	97.2	5.0
002	28.4	No		-0.1
003	28.66	yes	105.42	0.0
004	31.67	yes	82	1.1
005	4.43	No	No	-8.7
006		no	-	
007	26.6	YES	68.9	-0.7
008	32.5	No		1.4
009	23	no		-2.0
010	31.0	No	NA	0.9
011	115	no		31.3
012				
013	26.490	No	93.9	-0.8
014	32.0	No	103	1.2
015	29.9	No		0.5
016				
017	28.7	No	105	0.0
018	16.82	No		-4.3
019	28.3	YES	60.08	-0.1
020	22.15	no		-2.3

z-scores outside the satisfactory range, i.e. $|z| > 2$, are shown in **bold**

Table 2 (continued): Results and z-Scores for Diisononyl Phthalate in Sunflower Oil Test Material

laboratory number	analyte			
	diisononyl phthalate			
	assigned value 28.6 mg/kg			
	result mg/kg	corrected for recovery	% recovery	z-score
021	17.95	no		-3.8
022	0.20	NO		-10.3
023	35.0*			2.3
024	28.7	No		0.0
025	25.1	No		-1.3
026	24.31*	Yes	96	-1.5
027	17	Yes		-4.2
028	18	Yes		-3.8
029	23	y		-2.0
030	28.9	No		0.1
031	28.34	no		-0.1
032	25.92	No	95.1	-1.0
033				
034				
035	<100	no		

z-scores outside the satisfactory range, i.e. $|z| > 2$, are shown in **bold**

* standard gave a different isometric pattern to the sample.

Table 3: Assigned Values and Target Standard Deviations

analyte	assigned value				target standard deviation	
	data points, n	robust mean, \hat{X} , mg/kg	robust standard deviation, $\hat{\sigma}$	uncertainty, u	derived from	σ_p
benzylbutyl phthalate	30	6.13	1.07	0.195	Horwitz*	0.746
analyte	data points, n	mode, \hat{X} , mg/kg	sem	uncertainty, u	derived from	σ_p
	diisononyl phthalate	26	28.6	0.68	0.678	Horwitz*

*see page 7 for appropriate form of the Horwitz equation

Table 4: Number and Percentage of Satisfactory z-Scores

analyte	number of satisfactory scores $ z \leq 2$	total number of scores	satisfactory %
benzylbutyl phthalate	25	31	81
diisononyl phthalate	19	29	66