

Table of assigned values CHC and BTEX & C5-C10 - CBL07

1st Edition, 04.11.2021

Table of assigned values

Parameter	Sample	Unit	Assigned value ±	U (k=2)	Criterion	Criterion [%]
1,1,1-Trichloroethane	CL08 - CHC	µg/tube	4.08 ±	0.752	1.14	28
Benzene	BL09 - BTEX & C5-C10	µg/tube	4.17 ±	0.452	0.626	15
cis-1,2-Dichloroethene**	CL08 - CHC	µg/tube	- ±	-	-	-
Ethylbenzene	BL09 - BTEX & C5-C10	µg/tube	3.99 ±	0.404	0.638	16
n-Decane*	BL09 - BTEX & C5-C10	µg/tube	- ±	-	-	-
n-Heptane*	BL09 - BTEX & C5-C10	µg/tube	- ±	-	-	-
n-Hexane*	BL09 - BTEX & C5-C10	µg/tube	- ±	-	-	-
n-Nonane*	BL09 - BTEX & C5-C10	µg/tube	- ±	-	-	-
n-Octane*	BL09 - BTEX & C5-C10	µg/tube	- ±	-	-	-
n-Pentane*	BL09 - BTEX & C5-C10	µg/tube	- ±	-	-	-
o-Xylene	BL09 - BTEX & C5-C10	µg/tube	3.24 ±	0.482	0.875	27
Sum of m-Xylene and p-Xylene	BL09 - BTEX & C5-C10	µg/tube	6.92 ±	1.07	1.94	28
Tetrachloroethene	CL08 - CHC	µg/tube	2.95 ±	0.691	1.09	37
Tetrachloromethane	CL08 - CHC	µg/tube	5.17 ±	0.955	1.5	29
Toluene	BL09 - BTEX & C5-C10	µg/tube	4.17 ±	0.317	0.626	15
trans-1,2-Dichloroethene	CL08 - CHC	µg/tube	2.78 ±	0.503	0.723	26
Trichloroethene	CL08 - CHC	µg/tube	3.22 ±	0.613	0.87	27
Trichloromethane	CL08 - CHC	µg/tube	3.58 ±	0.168	0.358	10

*n-Pentane, n-Hexane, n-Heptane, n-Octane, n-Nonane und n-Decane sample BL09: Since less than 6 valid results were available, no assigned value could be determined.

In the context of internal QA, comparison with the values of the control laboratory is recommended:

n-Pentane: 4.63 µg/tube ± 2.04 U(k=2)
n-Hexane: 4.58 µg/tube ± 1.65 U(k=2)
n-Heptane: 5.30 µg/tube ± 1.48 U(k=2)
n-Octane: 4.45 µg/tube ± 1.56 U(k=2)
n-Nonane: 3.21 µg/tube ± 0.899 U(k=2)
n-Decane: 1.79 µg/tube ± 0.625 U(k=2)

**cis-1,2-Dichloroethene sample CL08: The relative reproducibility standard deviation of the results within accredited participating laboratories after outlier elimination was at 56%. Therefore, no assigned value could be determined.

In the context of internal QA, comparison with the informative value of the participating laboratories is recommended:

cis-1,2-Dichloroethene: 3.14 µg/tube ± 1.18 U(k=2)

Legend:

Assigned value	Target value for proficiency assessment of the participants (3 significant digits)
U (k=2)	Expanded uncertainty (k=2) of the assigned value (3 significant digits)
Criterion	Specified value for the determination of the z-score in the given unit (3 significant digits)
Criterion [%]	Specified value for the determination of the z-score in % of the assigned value (2 significant digits)