

Deuterated Alkyl- and Aryltin compounds

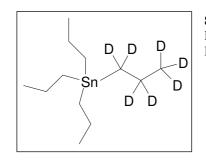
Organotin compounds are widely applied in the industry due to their antibacterial and fungicidal properties. Applications include preservation of wood, textiles, leather and paper, and as disinfectants. Due to their toxicity the use of trialkyltin compounds in marine antifoulding paints is restricted. The trialkyltin compounds are partly degraded to the di- and monoalkyltin derivatives.

New Internal standards for tinchlorides analysis:



8554.12-K-ME	Tetra-n-propyltin-d ₇	$(CH_3CH_2CH_2)_3\text{-}Sn\text{-}CD_2CD_2CD_3$	
9229.10-100-IO	Mono-n-butyl-d9-triethyltin	$CD_3CD_2CD_2CD_2\text{-}Sn\text{-}(CH_2CH_3)_3$	
9230.14-100-IO	Monoethyltri-n-butyl-d ₂₇ -tin	$(CD_3CD_2CD_2CD_2)_3\text{-}Sn\text{-}CH_2CH_3$	
9231.12-100-IO	Monophenyl-d5-triethyltin	C_6D_5 -Sn-(CH ₂ CH ₃) ₃	
9232.20-100-IO	Monoethyltriphenyl-d ₁₅ -tin	$(C_6D_5)_3$ -Sn-CH ₂ CH ₃	

Available as 100µg/mL in methanol, 1 mL



8554.12 Tetra-n-propyltin-d7 For additional deuterated alkyltins: Please see BMF 41.

International standard methods

- ISO 17353:2004	Water Quality - Determination of selected organotin compounds - Gas chromatographic method.
- ISO/DIS 23161.2:2007	Soil Quality - Determination of selected organotin compounds - Gas chromatographic method.

As a unique source, Chiron offers standards for the derived analytes for use as calibration standards, in addition to the derivatizing agent and the common trialkyltin chloride pollutants.





Tin-organics	
	Tin chlorides (common pollutants)
1983.4-K-5ME *	Mono-n-butyltin trichloride
1982.8-K-5ME *	Di-n-butyltin dichloride
1982.8-K-5IO	Di-n-butyltin dichloride
1981.12-K-5ME *	Tri-n-butyltin chloride
1981.12-K-5IO	Tri-n-butyltin chloride
2497.16-K-IO *	Tetra-n-butyltin
2487.8-K-ME *	Mono-n-octyltin trichloride
2488.16-K-ME *	Di-n-octyltin dichloride
2695.24-K-5ME	Tri-n-octyltin chloride
2695.24-100MG	Tri-n-octyltin chloride
1987.6-K-5ME *	Monophenyltin trichloride
1986.12-K-5ME *	Diphenyltin dichloride
1985.18-K-5ME *	Triphenyltin chloride
1985.18-K-5IO	Triphenyltin chloride
2489.18-500-ME *	Tricyclohexyltin chloride
2489.18-K-ME	Tricyclohexyltin chloride
1984.3-KIT-S	Butyltin chlorides Kit (solutions, 1983.4, 1982.8, 1981.12)
1984.3-KIT-N	Butyltin chlorides Kit (neat, 1983.4, 1982.8, 1981.12)
1988.3-KIT-S	Phenyltin chlorides Kit (solutions, 1987.6, 1986.12, 1985.18)
1988.3-KIT-N	Phenyltin chlorides Kit (neat, 1987.6, 1986.12, 1985.18)
	Tin Chlorides Kit I (neat, 1983.4, 1982.8, 1981.12, 1987.6, 1986.12, 1985.18, 2487.8, 2488.16,
3726.10-KIT	2695.24, 2489.18, includes all tin chloride analytes)
	Internal standards (tin chlorides and tetralkyl)
1989.9-K-ME *	Tri-n-propyltin chloride
2050.15-K-ME *	Tri-n-pentyltin chloride
2490.12-K-IO *	Tetra-n-propyltin
3956.15-K-IO *	Tetra-n-pentyltin
2495.7-K-ME	Mono-n-heptyltin trichloride
2495.7-100MG	Mono-n-heptylin trichloride
2495.7-K-IO	Mono-n-heptyltin trichloride
2496.14-K-ME	Di-n-heptyltin dichloride
2496.14-100MG	Di-n-heptyltin dichloride
2496.14-K-IO	Di-n-heptyltin dichloride
8556.14-KIT-S	Tin Chlorides Kit II (solutions, 1983.4, 1982.8, 1981.12, 1987.6, 1986.12, 1985.18, 2487.8, 2488.16, 2695.24, 2489.18, 1989.9, 2050.15, 3956.15, 2495.14, includes all tin chloride analytes and internal
	standards)
8556.14-KIT-N	Tin Chlorides Kit II (neat, 1983.4, 1982.8, 1981.12, 1987.6, 1986.12, 1985.18, 2487.8, 2488.16, 2695.24, 2489.18, 1989.9, 2050.15, 3956.15, 2495.14, includes all tin chloride analytes and internal standards)
	Deuterated Internal Standards
8554.12-K-IO	Tetra-n-propyltin-d7 (mono-n-propyl-d7)
8554.12-K-IOx5	Tetra-n-propyltin-d7 (mono-n-propyl-d7)
9126.4-K-IO	Mono-n-butyltin-d9 trichloride
9127.12-K-IO	Tri-n-butyltin-d27 chloride
9129.6-K-IO	Monophenyltin-d5 trichloride
9128.18-K-IO	Triphenyltin-d15 chloride
9229.10-100-IO	Mono-n-butyltriethyltin-d9 (mono-n-butyl-d9)
9230.14-100-IO	Ethyltri-n-butyltin-d27 (tri-n-butyl-d27)
9231.12-100-IO	Monophenyltriethyltin-d5 (phenyl-d5)
9232.20-100-IO	Ethyltriphenyltin-d15 (triphenyl-d15)
8555.19-S	Organotin Analytes + Internal Standards, Solutions Kit (19 compounds, 19 vials, includes 1944.8 as neatand 8554.12 in solution)
8555.19-N	Organotin Analytes + Internal Standards, Neat Kit (19 compounds, 19 vials, includes 1944.8 as neat and 8554.12 in solution)

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	Analytes ethyl derivatives
2119.10-K-IO	Mono-n-butyltriethyltin
2120.12-K-IO	Di-n-butyldiethyltin
1886.14-K-IO	Ethyltri-n-butyltin
2492.14-K-IO	Mono-n-octyltriethyltin
2491.20-K-IO	Di-n-octyldiethyltin
8553.26-K-IO	Ethyltri-n-octyltin
2498.20-K-IO	Ethyltricyclohexyltin
2118.12-K-IO	Monophenyltriethyltin
2117.16-K-IO	Diphenyldiethyltin
1887.20-K-IO	Ethyltriphenyltin
	Internal standards ethyl derivatives
1955.11-K-IO	Ethyltri-n-propyltin
2049.17-K-IO	Ethyltri-n-pentyltin
2494.13-K-IO	Mono-n-heptyltriethyltin
2493.18-K-IO	Di-n-heptyldiethyltin
2023.14-KIT	Ethylderivatives Kit (Ethylalkyl-/ Ethylaryltin Kit)

Derivatizing Agent and Kits:

1944.8.1-1G	Sodium tetraethyl borate (Derivatizing agent), 1 g
8555.19-KIT-S	Organotin Analytes + Internal Standards, Solutions Kit
0555 10 IZIT N	(19 compounds, 19 vials, includes 1944.8 as neat)
8555.19-KIT-N	Organotin Analytes + Internal Standards, Neat Kit
	(19 compounds, 19 vials,
	includes 1944.8 as neat and 8554.12 in solution)
3726.10-KIT-N	Tin Chlorides Neat KIT I (includes Analytes but not Internal Standards)
8556.14-KIT-S	Tin Chlorides Neat KIT II (includes Internal Standards and Analytes in solution)
	Tin Chlorides Neat KIT II (includes Internal Standards and Analytes as neat)
2023.14-KIT	Ethyl derivatives Kit, Solutions
2024.33-KIT-S	Organotin Analysis Solutions KIT (includes all the compounds, includes 1944.8 as neat)
2024.33-KIT-N	Organotin Analysis Neat KIT (includes all the compounds, includes 1944.8 as neat)

Please see BMF 41 for more info on new deuterated tin chlorides.