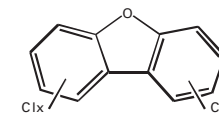
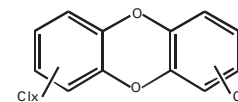


Polychlorinated Dibenzodioxins and -furans

Reference Tables



	DIOXINS						FURANS					
	NATIVE		¹³ C ₁₂ STANDARD		¹³ C ₆ STANDARD		NATIVE		¹³ C ₁₂ STANDARD		¹³ C ₆ STANDARD	
	EXACT MASS [u]	REL. INTENSITY [%]	EXACT MASS [u]	REL. INTENSITY [%]	EXACT MASS [u]	REL. INTENSITY [%]	EXACT MASS [u]	REL. INTENSITY [%]	EXACT MASS [u]	REL. INTENSITY [%]	EXACT MASS [u]	REL. INTENSITY [%]
Cl₂	251.973936	100.0	264.014194	100.0	257.994065	100.0	235.979022	100.0	248.019280	100.0	241.999151	100.0
	253.970986	65.1	266.011244	64.3	259.991115	64.5	237.976072	64.9	250.016330	64.1	243.996201	64.3
	255.968036	11.0	268.008294	10.5	261.988165	10.6	239.973121	10.8	252.013379	10.3	245.993250	10.5
Cl₃	285.934964	100.0	297.975222	100.0	291.955093	100.0	269.940049	100.0	281.980307	100.0	275.960178	100.0
	287.932014	97.1	299.972272	96.3	293.952143	96.5	271.937099	96.9	283.977357	96.1	277.957228	96.3
	289.929064	31.8	301.969322	31.0	295.949193	31.2	273.934149	31.6	285.974407	30.8	279.954278	31.0
	291.926114	3.6	303.966372	3.4	297.946243	3.4	275.931199	3.6	287.971457	3.3	281.951328	3.4
Cl₄	319.895992	77.5	331.936250	78.0	325.916121	77.9	303.901077	77.6	315.941335	78.1	309.921206	78.0
	321.893042	100.0	333.933300	100.0	327.913171	100.0	305.898127	100.0	317.938385	100.0	311.918256	100.0
	323.890091	48.7	335.930349	48.2	329.910220	48.3	307.895177	48.5	319.935435	48.1	313.915306	48.2
	325.887141	10.7	337.927399	10.4	331.907270	10.4	309.892227	10.6	321.932485	10.3	315.912356	10.4
Cl₅	353.857019	62.1	365.897277	62.4	359.877148	62.3	337.862105	62.2	349.902363	62.5	343.882234	62.4
	355.854069	100.0	367.894327	100.0	361.874198	100.0	339.859155	100.0	351.899413	100.0	345.879284	100.0
	357.851119	64.6	369.891377	64.2	363.871248	64.3	341.856204	64.5	353.896463	64.0	347.876333	64.1
	359.848169	21.0	371.888427	20.6	365.868298	20.7	343.853254	20.9	355.893512	20.5	349.873383	20.6
	361.845219	3.5	373.885477	3.3	367.865348	3.4	345.850304	3.4	357.890562	3.3	351.870433	3.3
Cl₆	387.818047	51.8	399.858305	52.0	393.838176	52.0	371.823132	51.9	383.863390	52.1	377.843261	52.0
	389.815097	100.0	401.855355	100.0	395.835226	100.0	373.820182	100.0	385.860440	100.0	379.840311	100.0
	391.812147	80.6	403.852405	80.1	397.832276	80.2	375.817232	80.5	387.857490	80.0	381.837361	80.1
	393.809197	34.8	405.849455	34.3	399.829326	34.4	377.814282	34.7	389.854540	34.2	383.834411	34.3
	395.806247	8.5	407.846505	8.3	401.826376	8.3	379.811332	8.5	391.851590	8.2	385.831461	8.2
	397.803296	1.1	409.843554	1.1	403.823425	1.1	381.808382	1.1	393.848640	1.1	387.828511	1.1
Cl₇	421.779075	44.5	433.819333	44.6	427.799204	44.6	405.784160	44.5	417.824418	44.7	411.804289	44.6
	423.776125	100.0	435.816383	100.0	429.796254	100.0	407.781210	100.0	419.821468	100.0	413.801339	100.0
	425.773174	96.6	437.813432	96.1	431.793303	96.2	409.778260	96.4	421.818518	96.0	415.798389	96.1
	427.770224	51.9	439.810482	51.4	433.790353	51.5	411.775310	51.8	423.815568	51.2	417.795439	51.4
	429.767274	16.8	441.807532	16.5	435.787403	16.6	413.772360	16.8	425.812618	16.4	419.792489	16.5
	431.764324	3.3	443.804582	3.2	437.784453	3.2	415.769409	3.3	427.809668	3.2	421.789539	3.2
Cl₈	455.740102	34.6	467.780360	34.8	461.760231	34.8	439.745188	34.7	451.785446	34.9	445.765317	34.8
	457.737152	88.9	469.777410	89.2	463.757281	89.1	441.742238	89.0	453.782496	89.3	447.762367	89.2
	459.734202	100.0	471.774460	100.0	465.754331	100.0	443.739288	100.0	455.779546	100.0	449.759417	100.0
	461.731252	64.4	473.771510	64.1	467.751381	64.2	445.736337	64.3	457.776595	64.0	451.756466	64.1
	463.728302	26.0	475.768560	25.7	469.748431	25.8	447.733387	25.9	459.773645	25.6	453.753516	25.7
	465.725352	6.8	477.765610	6.6	471.745481	6.6	449.730437	6.7	461.770695	6.6	455.750566	6.6

The calculated reference masses are based on the following values for isotopic masses: ¹H 1.0078250321 u, ¹²C 12.0000000000 u, ¹³C 13.0033548378 u, ¹⁶O 15.9949146221 u, ³⁵Cl 34.9688527100 u and ³⁷Cl 36.9659026000 u. All listed masses refer to singly positively charged ions. The mass of the electron (0.000548579911 u) was taken into account for the calculation of the ionic masses. Reference: Nuclear Phys. A 1995, 595, 409-480; J. Phys. Chem. Ref. Data 1999, 28 (6), 1713-1852 and references cited therein.

