

Toxins added to drinking water by fluoridating water companies, UK, 2020

British Standard 12175:2013 (page 8) refers: “Chemical parameters” as listed in Column 1 in the table below, are added when hexafluorosilicic acid is used. Columns 2 and 3 show the concentration of these chemical parameters in the 20% fluoride acid and the amount found in 1 litre of fluoridated water. Columns 4 and 5 show the maximum allowable per litre of water and the contribution made by that substance in percentage terms.

Chemical Parameter	Maximum allowable in the fluoridating acid	Maximum amount added to each litre of fluoridated water	PCV* (Max. allowable per litre of water)	% of PCV contributed by the fluoridating acid
Antimony	80 mg/kilo of the fluoridating acid	0.000504 mg	0.005 mg	11%
Arsenic	400 mg/kilo of the fluoridating acid	0.00252 mg	0.010 mg	25%
Cadmium	40 mg/kilo of the fluoridating acid	0.000252 mg	0.005 mg	5%
Chromium	400 mg/kilo of the fluoridating acid	0.00252 mg	0.05 mg	5%
Lead	400 mg/kilo of the fluoridating acid	0.00252 mg	0.010 mg	25%
Mercury	10 mg/kilo of the fluoridating acid	0.000063 mg	0.001 mg	6%
Nickel	400 mg/kilo of the fluoridating acid	0.00252 mg	0.02 mg	12.6%
Selenium	80 mg/kilo of the fluoridating acid	0.000504 mg	0.010 mg	5%

* PCV = The [Prescribed Concentration or Value \(PCV\)](#) limits are legal thresholds for acceptable levels of contamination in Drinking Waters.