

KNOW-HOW FOR DIOXIN AND FURAN EXTRACTION, CLEANUP AND ANALYSIS



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RESUM

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AVANTATGES I ASPECTES INNOVADORS

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Nowadays, this methodology (standard one) is the only one available method to carry out reliable dioxin analyses.

APLICACIONS DE L'OFERTA

The technique could be applied to different fields:

- Control of gaseous emissions from the combustion of urban or industrial wastes. Following European directive 94/67/CE of the Council, related to the incineration of hazardous wastes, the emission limit is 0.1ng/Nm³.
- Characterization of hazardous and toxic wastes. The directive of the European Council establish a content of dioxins lower than 0.01 % for the waste to be considered hazardous and toxic.
- Determination in food and feed (milk and derivatives, meat, fish,...). It is estimated that more than 90 % of the environmental exposure to dioxins and furans is through the food, specially those of animal origin. In the industrialized countries the averages daily ingest of PCDD/Fs is 50-200 pg/person/day.
- Determination in sewage sludges and other organic fertilizers (therefore in composting plants). It exists a draft for a normative referring to the limit of dioxins and furans of 100 ng/kg dry solid.
- Determination in other matrices such as tissues and blood, air, emission due to the traffic, paper, ink, hygienic materials, tobacco smoke, chimney soot, dust...

COL·LABORACIÓ BUSCADA

Two types of cooperation are sought by the Department of Chemical Engineering of the University of Alicante:

- Accomplishment of the extraction, cleanup and analysis of dioxins and related compounds to samples that companies are interested in.
- Instruct people interested in perform the tasks involved in the dioxin analysis, with training courses designed specifically for each situation.

