

燃料差異性產生戴奧辛物種之探討

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摘要

本研究針對一般廢棄物焚化爐、事業廢棄物焚化爐、燃木鍋爐，探討燃料差異性對產生之戴奧辛（Dioxins）化合物物種之影響。資料來源係由該行業提報環保單位之檢測報告書檢測值，分析時針對其採樣方法之正確性及數據合理性予以判定，再進行戴奧辛濃度（在含氧基準為11%時）及物種之分類比對。所得結論歸納如下（1）一般廢棄物焚化爐所產生戴奧辛化合物物種分佈以2,3,4,7,8-PCDF所佔濃度為最高，其次為2,3,4,6,7,8-HCDF及1,2,3,6,7,8-HCDD。（2）事業廢棄物焚化爐以2,3,4,7,8-PCDF所佔濃度為最高，其次為2,3,4,6,7,8-HCDF及1,2,3,6,7,8-HCDF。（3）燃木鍋爐以2,3,4,7,8-PCDF所佔濃度為最高，其次為1,2,3,7,8-PCDD及2,3,7,8-TCDD。三種不同燃料焚化所產生之戴奧辛物種中都以2,3,4,7,8-PCDF戴奧辛化合物為主要排放物種。

關鍵詞：燃木鍋爐；焚化爐；2,3,4,7,8-PCDF

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