

2A13: CONVERSION OF WOOD PYROLYSATES TO PCDD/F.

N.W. Tame, B.Z. Dlugogorski, E.M. Kennedy

The University of Newcastle, Australia

Comment by Rubik Asatryan, Researcher, USA

asatryan@njit.edu

I believe that the almost exclusive formation of PCDFs is a very interesting phenomenon and can be connected to the stereochemistry of phenolic fragments in lignin and likely can be explained by the stereospecific dimerization of phenoxy radical derivatives leading to the formation of PCDF instead of PCDD via dimerization mechanism developed in our work [1]. For the interpretation and systematization of specified by authors TEQ values would be likely interesting also to involve electronic elasticity conception of dioxin congeners developed by us earlier [2,3].

References:

[1] R. Asatryan, A. Davtyan, L. Khachatryan, B. Dellinger, *J. Phys. Chem. A*, 109 (2005) 11198–11205.

[2] R. Asatryan, N. Mailyan, L. Khachatryan, B. Dellinger, *Chemosphere* 48 (2002) 227–236.

[3] R. Asatryan, L. Khachatryan, B. Dellinger, N. Mailyan, L. Sahakyan, *Organohalogen Compounds* 56 (2002) 21–24.

No reply received from authors.