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CORAL: Predictive models for cytotoxicity of functionalized nanozeolites based on quasi-SMILES

Caterina Leone, Elia E. Bertuzzi, Alla P. Toropova, Andrey A. Toropov, Emilio Benfenati

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	ACCEPTED MANUSCRIPT
1	CORAL: predictive models for cytotoxicity of functionalized nanozeolites based on
2	quasi-SMILES
3	Caterina Leone <sup>*</sup> , Elia E. Bertuzzi, Alla P.Toropova, Andrey A. Toropov, Emilio Benfenati
4	Department of Environmental Health Sciences
5	Laboratory of Environmental Chemistry and Toxicology,
6	IRCCS - Istituto di Ricerche Farmacologiche Mario Negri, Via La Masa 19, 20156 Milan, Italy
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10	Abstract
11	Unlike the well-known simplified molecular input-line entry system (SMILES), the so-called quasi-
12	SMILES contains information related to physicochemical and biochemical conditions by a special
13	additional symbols (codes), each standing for different conditions (time exposure, concentration,
14	type of cell, etc.). Thus, quasi-SMILES can be used to build up models for cytotoxicity of
15	functionalized nanozeolites using a mathematical function of eclectic information. These
16	calculations were done with the Monte Carlo CORAL software. The statistical quality of models
17	based on quasi-SMILES was usually considerably better than the statistical quality of models based
18	on traditional SMILES.
19	Keywords: Cytotoxicity, functionalized nanozeolites, quasi-SMILES, CORAL software
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