QSAR model for Partition Coefficient, Log P (M) (v1.0)



ProtoNANO

ProtoNANO is a computational (*in silico*) tool focused on the prediction of endpoints related with the physicochemical, toxicological and ecotoxicological properties of nanomaterials.

ProtoNANO was developed as a part of the NanoQSAR research project. This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Sklodowska-Curie grant agreement No 896848.

Endpoint

Physical-chemical properties: Octanol-water partition coefficient (Kow).

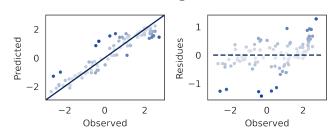
The n-octanol/water partition coefficient (Kow) is defined as the ratio of the equilibrium concentrations of a dissolved substance in a two-phase system consisting of the largely immiscible solvents n-octanol and water. The Kow is typically defined as the partition coefficient of the neutral, undissociated form of a substance.

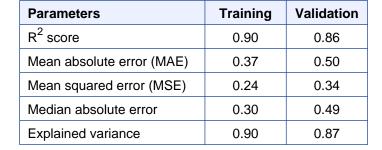
Nanomaterials

The models was developed with noble metal partilces (Au, Pd, Pt) covered by organic ligands/surfactants.

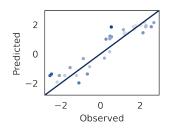
Metrics

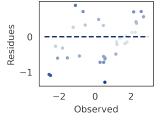
Training set





Validation set





ProtoPRED platform allows the easy, fast and user-friendly prediction of different properties of chemical compounds, by proprietary (Q)SAR models.



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