# QSAR model for partition coefficient (log Kow/log P) (v1.0)



#### **ProtoPHYSCHEM**

ProtoPHYSCHEM is a computational (*in silico*) tool focused on the prediction of endpoints related with the physicochemical properties of chemical substances.

ProtoPHYSCHEM mainly includes, but is not limited to, endpoints used by REACH, a European Union regulation, adopted to improve the protection of human health and the environment from the risks that can be posed by chemicals, while enhancing the competitiveness of the EU chemicals industry.

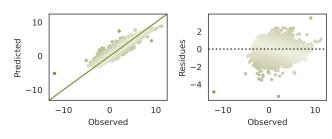
## **Endpoint**

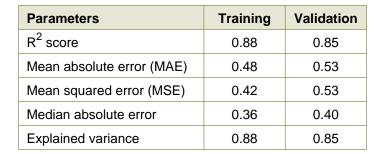
#### Physical-chemical properties: Octanol-water partition coefficient (Kow).

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.

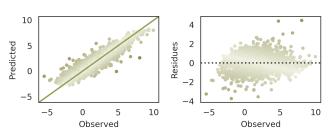
#### **Metrics**

### Training set





#### Validation set



ProtoPHYSCHEM is part of



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



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