

ProtoPHYSICHEM

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

ProtoPHYSICHEM 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.

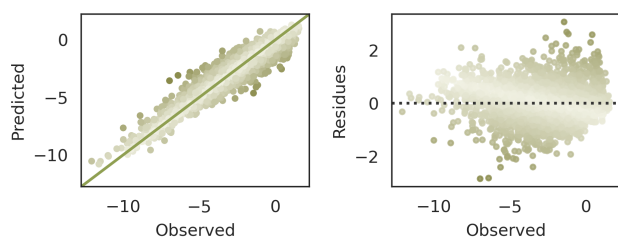
Endpoint

Physical-chemical properties: Water solubility.

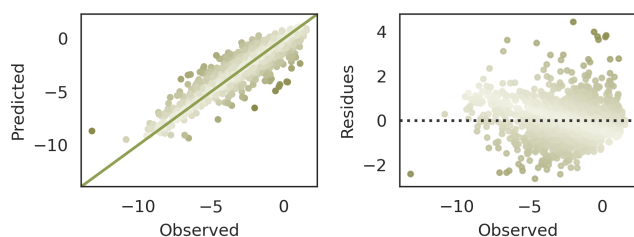
The solubility of a substance in water is specified by the saturation mass concentration of the substance in water at a given temperature. The solubility in water is specified in units of mass per volume of solution.

Metrics

Training set



Validation set



Parameters	Training	Validation
R ² score	0.91	0.82
Mean absolute error (MAE)	0.50	0.69
Mean squared error (MSE)	0.45	0.87
Median absolute error	0.38	0.53
Explained variance	0.91	0.82

ProtoPHYSICHEM is part of

ProtoPRED

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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