QSAR model for melting point (v1.0)

ProtoPHYSCHEM by ProtoQSAR

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.

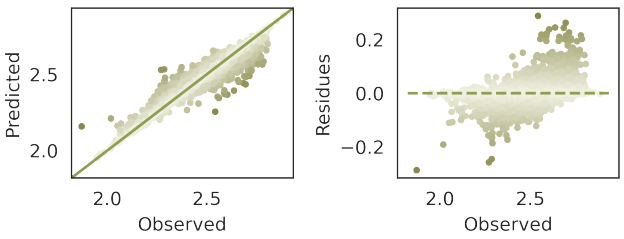
Endpoint

Physical-chemical properties: Melting point.

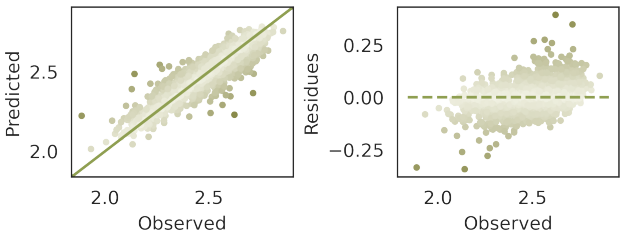
The melting point is the temperature at which a substance changes from a solid to a liquid. The reverse change from a liquid to solid is generally referred to as the freezing point. As for most substances, the melting and freezing points are approximately the same, usually both are simply referred to as 'melting point'.

Metrics

Training set



Validation set



Parameters	Training	Validation
R^2 score	0.94	0.83
Mean absolute error (MAE)	0.02	0.04
Mean squared error (MSE)	0.00	0.00
Median absolute error	0.01	0.03
Explained variance	0.94	0.83

ProtoPHYSCHEM is part of ProtoPRED

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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