

Model Performance

Model	Data
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Weighted KNN model

5-fold CV (75%)		Training (75%)		Test (25%)	
Q2	RMSE	R2	RMSE	R2	RMSE
0.85	0.69	0.86	0.67	0.86	0.78

## Model Results

**Predicted value:** 5.05

**Global applicability domain:** Inside

**Local applicability domain index:** 7.00e-01

**Confidence level:** 7.55e-01

## Nearest Neighbors from the Training Set

Image not found

Octane

**Measured:** 5.18

**Predicted:** 5.05

Image not found

Nonane

**Measured:** 5.65

**Predicted:** 5.44

Image not found

Heptane

**Measured:** 4.66

**Predicted:** 4.56

Image not found

Cyclooctane

**Measured:** 4.45

**Predicted:** 4.49

Image not found

Ethylcyclohexane

**Measured:** 4.56

**Predicted:** 4.45