

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
0.93	22.5	0.93	22.1	0.93	22.1

## Model Results

**Predicted value:** 121 °C

**Global applicability domain:** Inside

**Local applicability domain index:** 8.75e-01

**Confidence level:** 9.23e-01

## Nearest Neighbors from the Training Set

[Image not found](#)

Octane

**Measured:** 126

**Predicted:** 121

[Image not found](#)

4-Methylheptane

**Measured:** 118

**Predicted:** 117

[Image not found](#)

2-Methylheptane

**Measured:** 118

**Predicted:** 117

[Image not found](#)

3-Ethylhexane

**Measured:** 119

**Predicted:** 117