



PES ANALYSIS TOOL

Computational Chemistry Research Lab Edition

⚡ Flask + Python

📊 Advanced Analysis

✅ File Upload Support

Data Input



Upload File

Gaussian .log, ORCA .out, CSV, or TXT

Manual Entry:

Angle (°)

Energy (kJ/mol)

Add Point

Angle (°)	Energy	Action
10.0	30.000	✖
30.0	12.000	✖
45.0	50.000	✖

Analyze

CSV

Report

Clear

Global Minimum

Energy: 12.000000 kJ/mol

Angle: 30.00°

Statistics

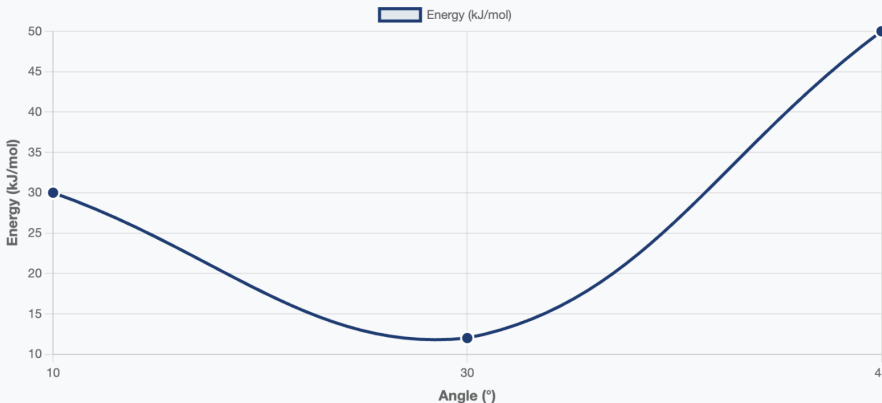
3

Data Points

38.00

Energy Range (kJ/mol)

Interactive Visualization



10

10

Angle (°)

30

45

Advanced Analysis Results

Global Minimum

Angle: 30.00°

Energy: 12.000000 kJ/mol

Local Minima (1)

Minimum 1: 30.00° | 12.000000 kJ/mol | Relative: 0.0000 kJ/mol



Generate Annotated Plot



Download Plot

Conformational Stability

Summary

Most Stable Conformation:

Angle: 30.00°

Energy: 12.000000 kJ/mol

Least Stable Conformation:

Angle: 45.00°

Energy: 50.000000 kJ/mol

Stability Range:

38.0000 kJ/mol (9.0822 kcal/mol)

Boltzmann Population (top 3)

The populations correspond to the points in the input dataset (index starting at 0).

1. Point index 1: 99.9301 %
2. Point index 0: 0.0699 %
3. Point index 2: 0.0000 %

Full Boltzmann Populations

Index	Population (%)
0	0.069899%
1	99.930079%
2	0.000022%