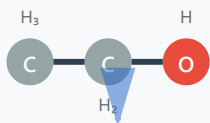


SMILES Notation

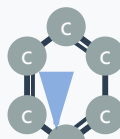
Ethanol



CCO

SMILES String

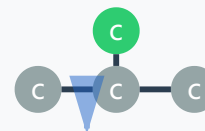
Benzene



c1ccccc1

Ring Closure

Branched



CC(C)C

Branching ()

Syntax rules

String-based molecular encoding

Canonical SMILES

Unique molecular representation

SMARTS patterns

Substructure search patterns

Tokenization

Breaking into meaningful units

Augmentation strategies

Data augmentation techniques