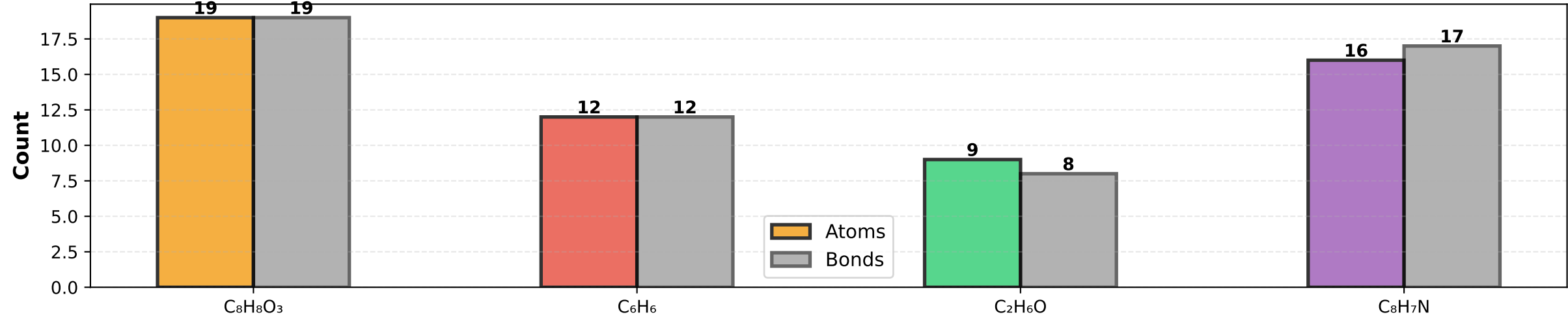
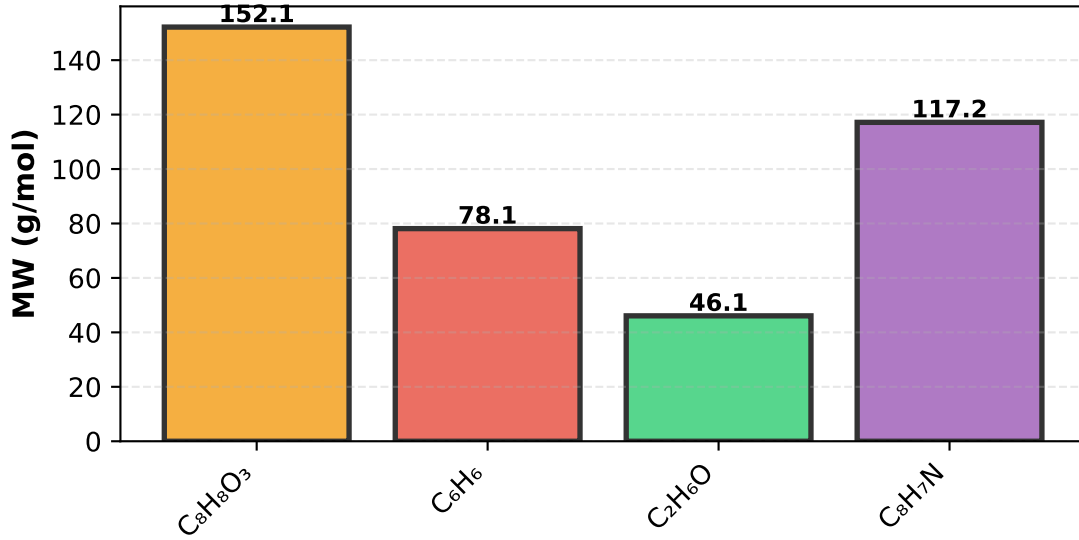


Molecular Structural Features Analysis  
Categorical Recognition from Descriptors

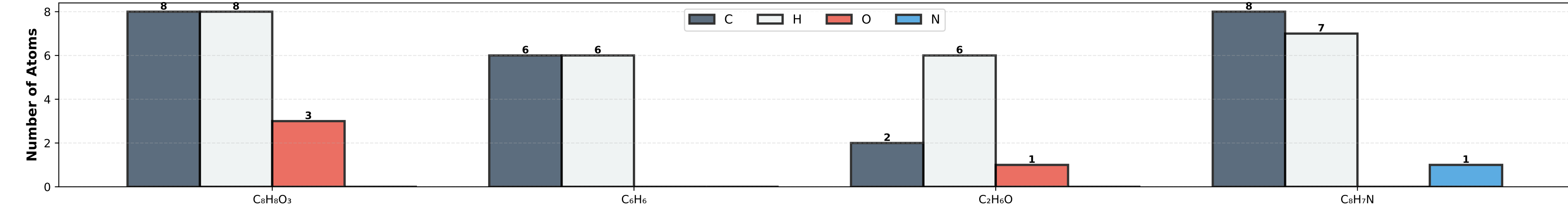
(A) Molecular Size Comparison  
Atoms and Bonds



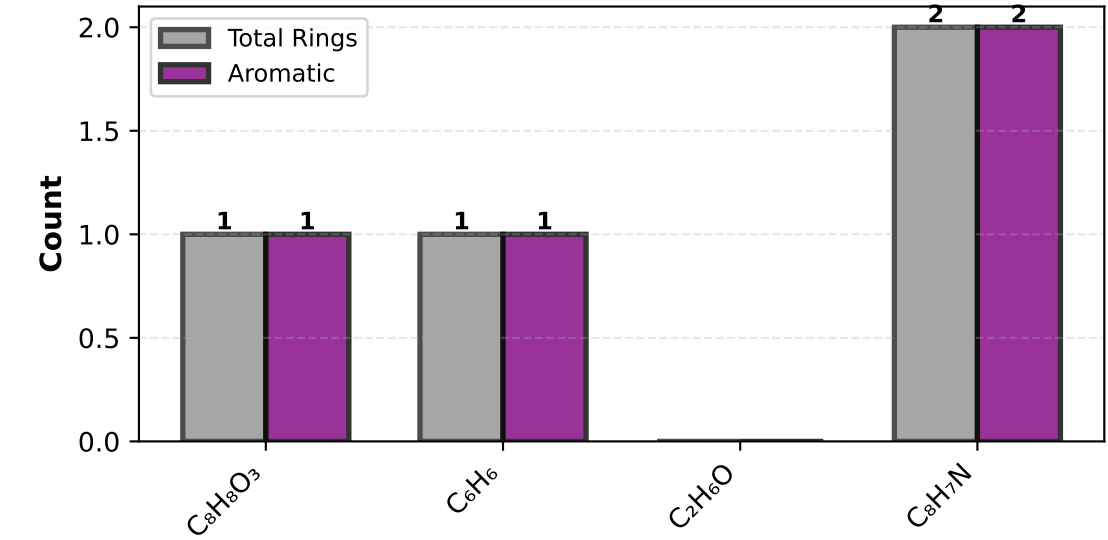
(B) Molecular Weight



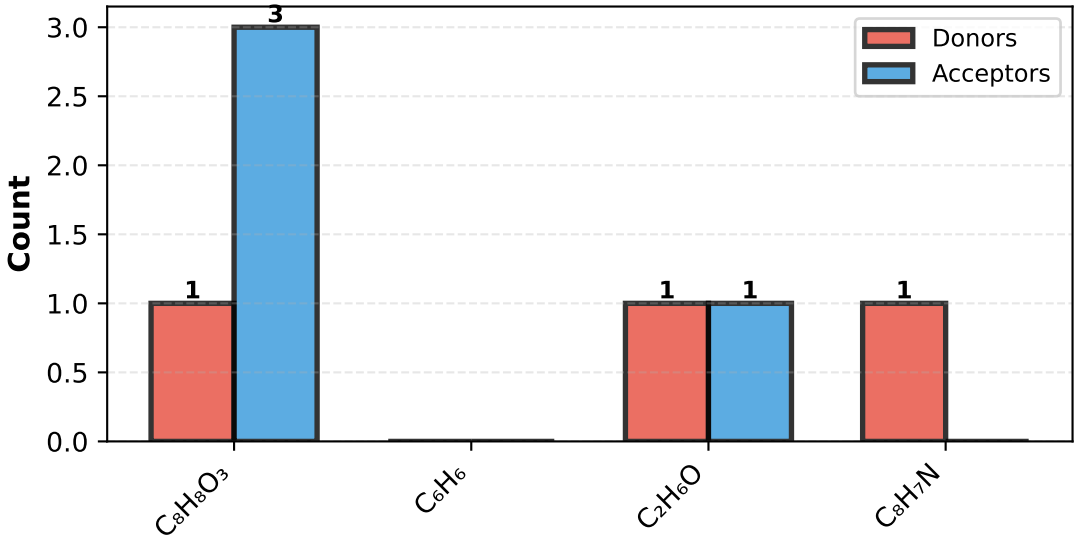
(C) Elemental Composition



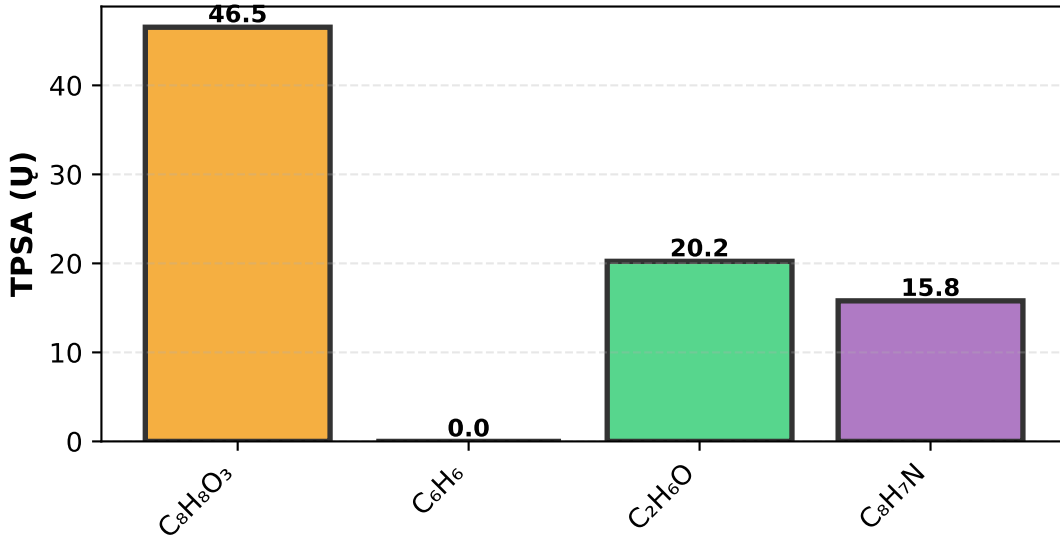
(D) Ring Systems



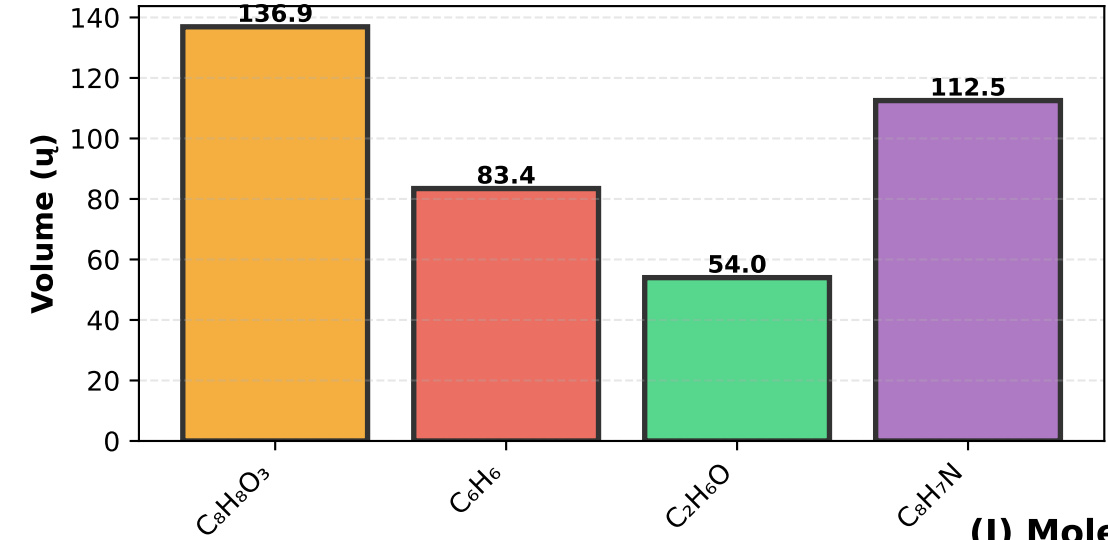
(E) H-Bonding



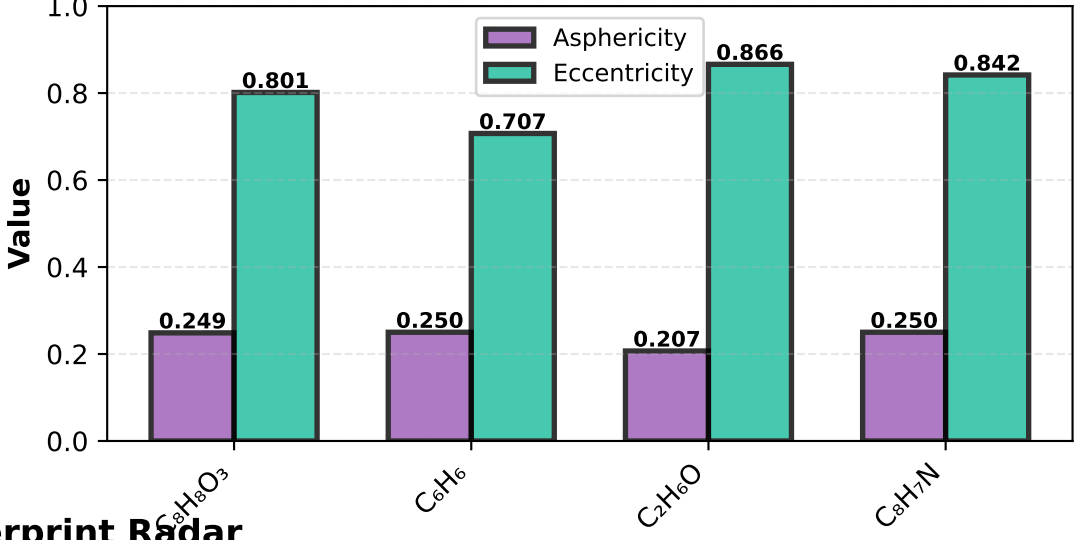
(F) Polarity



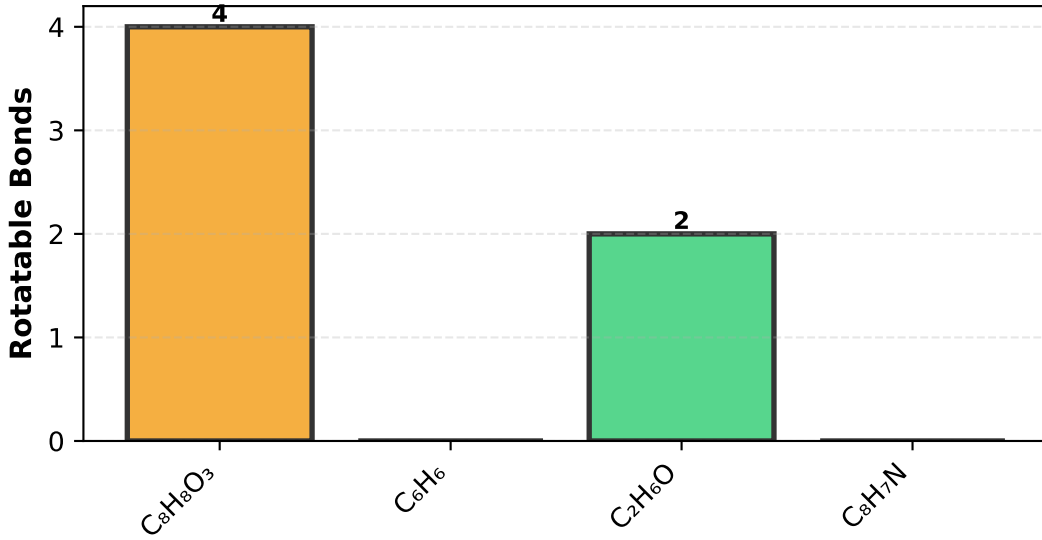
(G) Molecular Volume



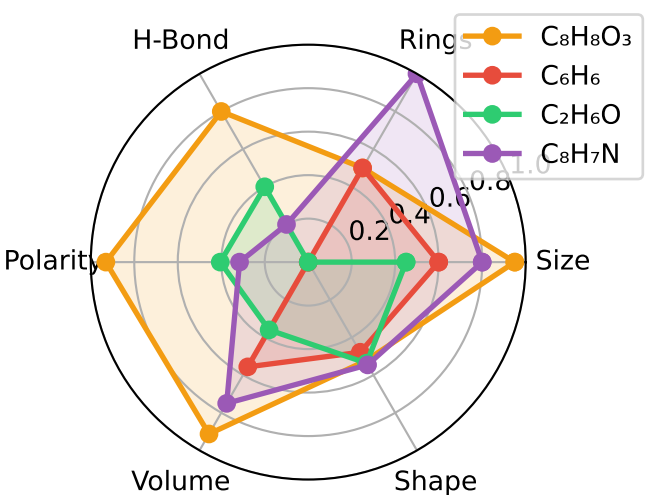
(H) Shape Descriptors



(I) Flexibility



(J) Molecular Fingerprint Radar  
Normalized Features



MOLECULAR SUMMARY

VANILLIN:  
Formula: C8H8O3  
MW: 152.1 g/mol  
Type: Aromatic aldehyde  
Rings: 1 aromatic  
H-bond: 1D, 3A  
TPSA: 46.5 Å²

BENZENE:  
Formula: C6H6  
MW: 78.1 g/mol  
Type: Simple aromatic  
Rings: 1 aromatic  
H-bond: None  
TPSA: 0.0 Å²

ETHANOL:  
Formula: C2H6O  
MW: 46.1 g/mol  
Type: Simple alcohol  
Rings: 0  
H-bond: 1D, 1A  
TPSA: 20.2 Å²

INDOLE:  
Formula: C8H7N  
MW: 117.2 g/mol  
Type: Bicyclic aromatic  
Rings: 2 aromatic  
H-bond: 1D, 6A  
TPSA: 15.8 Å²

KEY FEATURES:  
✓ 4 diverse molecules  
✓ 30+ descriptors  
✓ Categorical signatures  
✓ Zero backaction ID