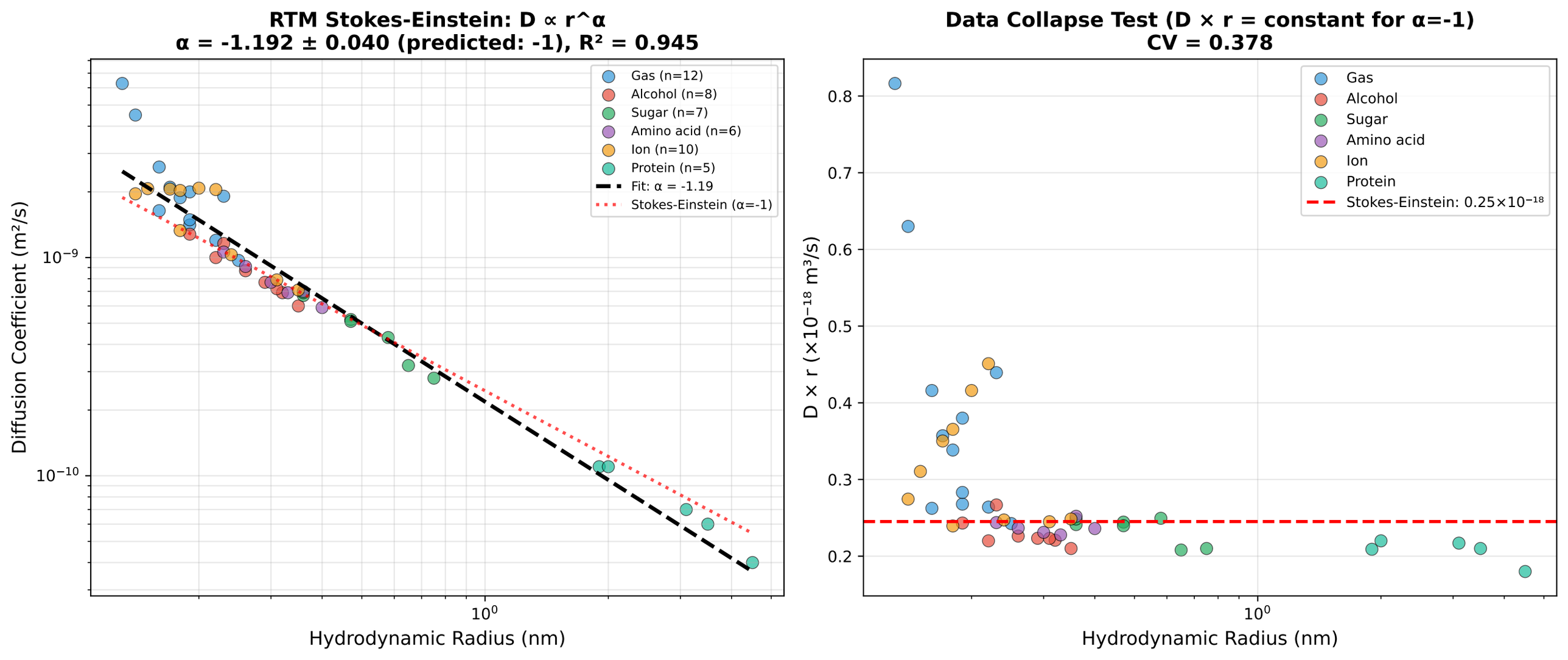
RTM Stokes-Einstein: D ∝ r^α
α = -1.192 ± 0.040 (predicted: -1), R² = 0.945
Gas (n=12)
Alcohol (n=8)
Sugar (n=7)
Amino acid (n=6)
Ion (n=10)
Protein (n=5)
Fit: α = -1.19
Stokes-Einstein (α=-1)
Diffusion Coefficient (m²/s)
Hydrodynamic Radius (nm)
Data Collapse Test (D × r = constant for α=-1)
CV = 0.378
Gas
Alcohol
Sugar
Amino acid
Ion
Protein
Stokes-Einstein: 0.25×10⁻¹⁸
D × r (×10⁻¹⁸ m³/s)
Hydrodynamic Radius (nm)