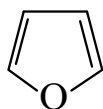




>>Entry Name: Furan, 9CI, 8CI

Synonym(s): Furfuran. Oxacyclopentadiene. Tetraphenol (obsol.)



CAS Registry Number: 110-00-9

Molecular Formula: C₄H₄O

Molecular Weight: 68.075

Accurate Mass: 68.026215

Percentage Composition: C 70.58%; H 5.92%; O 23.50%

Biological Source: Present in wood distillates

Use/Importance: Shows Diels-Alder reactivity under forcing conditions

Physical Description: Volatile liq.

Melting Point: Fp -85.7°

Boiling Point: Bp 31.4°

Solubility: Sol. EtOH, Et₂O, insol. H₂O

Density: d⁰ 0.964

Refractive Index: n_D²⁰ 1.4216

Other Data: Resinifies with mineral acids

Hazard & Toxicity: Highly flammable, fl. p. -36°. Peroxidisable. Can react violently with acids. High vapour conc. narcotic. LC₅₀ (mus, ihl) 120 mg m⁻³ (1h exposure)

Aldrich: F1955-8

Fluka: 47990

Sigma: F7259

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