



>>Entry Name: Di-2-furanylethanedione, 9Cl

Synonym(s): Furil, 8Cl. Di-2-furylglyoxal. α,α -Furil. Di- α -furoyl. Di- α -furyl diketone. Bipyromucyl



CAS Registry Number: 492-94-4

Related CAS Registry Numbers(s): 6035-71-8

Molecular Formula: $C_{10}H_6O_4$

Molecular Weight: 190.155

Accurate Mass: 190.02661

Percentage Composition: C 63.16%; H 3.18%; O 33.66%

Physical Description: Yellow needles (C_6H_6 or EtOH)

Melting Point: Mp 165-166°

Aldrich: 13802-9

Rare Chemicals Library: S26613-2

>>Derivative: Monoxime

CAS Registry Number: 4339-69-9

Molecular Formula: $C_{10}H_7NO_4$

Molecular Weight: 205.17

Accurate Mass: 205.037509

Percentage Composition: C 58.54%; H 3.44%; N 6.83%; O 31.19%

Use/Importance: Used as 10% soln. in Py for photometric detn. of Co, Ru

Physical Description: Yellow cryst.

Melting Point: Mp 97-98°

Hazard & Toxicity: Eye irritant, LD₅₀ (rat, orl) 2580 mg/kg

Rare Chemicals Library: S41568-5

>>Derivative: Dioxime

Synonym(s): α -Furildioxime. Neonickelone

CAS Registry Number: 522-27-0

Extra CAS Registry Numbers(s): 23789-33-5 23789-34-6

Molecular Formula: $C_{10}H_8N_2O_4$

Molecular Weight: 220.184

Accurate Mass: 220.048408

Percentage Composition: C 54.55%; H 3.66%; N 12.72%; O 29.07%

Use/Importance: Used as 0.5% EtOH soln. for extraction-photometric detn. of Ni ($\lambda_{\max}$ 435 nm, ϵ 20000, $CHCl_3$), Pd (ϵ 23000, $CHCl_3$), Re ($\lambda_{\max}$ 530 nm, ϵ 41000, Me_2CO aq.), Co

Physical Description: Cryst. + 1H₂O (H₂O)

Melting Point: Mp 84-85° (hydrate). Mp 166-168° (anhyd.)

Solubility: Sol. EtOH, Et₂O, hot H₂O

pKa Value: pK_{a2} 11.53 (20°, 1.0M NaClO₄)

Other Data: Forms metal complexes

Fluka: 48160

Rare Chemicals Library: S56296-3

Sigma: F6000

References: