>>**Entry Name: Di-2-furanylethanedione,** 9CI

Synonym(s): Furil, 8CI. 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, LD_{50} (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 (λ_{max} 435 nm, ε 20000, $CHCl_3$), Pd (ε 23000, $CHCl_3$), Re (λ_{max} 530 nm, ε 41000, Me_2CO aq.), Co
Physical Description: Cryst. + $1H_2O$ (H_2O)
Melting Point: Mp 84-85° (hydrate). Mp 166-168° (anhyd.)
Solubility: Sol. EtOH, Et_2O, hot H_2O
pKa Value: pK_{a2} 11.53 (20°, 1.0*M* $NaClO_4$)
Other Data: Forms metal complexes

Fluka: 48160
Rare Chemicals Library: S56296-3
Sigma: F6000

References: