>>**Derivative:** Amide-nitrile

>>**Derivative:** Diamide
Synonym(s): Propanediamide, 9CI. Malonamide, 8CI

CAS Registry Number: 108-13-4
Molecular Formula: $C_3H_6N_2O_2$
Molecular Weight: 102.093
Accurate Mass: 102.042928
Percentage Composition: C 35.29%; H 5.92%; N 27.44%; O 31.34%
Physical Description: Dimorphous
Melting Point: Mp 170°
Solubility: Insol. EtOH, Et_2O

Aldrich: 12959-3
Fluka: 63340
Sigma: M9018

>>**Derivative:** Monoanilide
Synonym(s): Malonanilic acid. 3-Oxo-3-(phenylamino)propanoic acid, 9CI

CAS Registry Number: 15580-32-2
Molecular Formula: $C_9H_9NO_3$
Molecular Weight: 179.175
Accurate Mass: 179.058244
Percentage Composition: C 60.33%; H 5.06%; N 7.82%; O 26.79%
Melting Point: Mp 134-135° (123-124°)

>>**Derivative:** Dianilide
Synonym(s): *N,N'*-Diphenylpropanediamide. Malonanilide

CAS Registry Number: 621-10-3
Molecular Formula: $C_{15}H_{14}N_2O_2$
Molecular Weight: 254.288
Accurate Mass: 254.105528
Percentage Composition: C 70.85%; H 5.55%; N 11.02%; O 12.58%
Physical Description: Needles (EtOH)
Melting Point: Mp 225°
Solubility: Insol. H_2O, Et_2O; sol. hot EtOH
Rare Chemicals Library: S59192-0

>>**Derivative:** Dihydrazide

CAS Registry Number: 3815-86-9

Molecular Formula: $C_3H_8N_4O_2$
Molecular Weight: 132.122
Accurate Mass: 132.064726
Percentage Composition: C 27.27%; H 6.10%; N 42.41%; O 24.22%
Use/Importance: Used for photometric detn. of Pd (λ_{max} 285 nm)
Physical Description: Plates (EtOH)
Melting Point: Mp 154°
Solubility: V. sol. H_2O, AcOH; sol. EtOH
Rare Chemicals Library: S89958-5

>>**Derivative:** Mononitrile

>>**Derivative:** Dinitrile

>>**Derivative:** Anhydride