>>**Entry Name: (3-Nitrophenyl)hydrazine,** 9CI

CAS Registry Number: 619-27-2

Molecular Formula: $C_6H_7N_3O_2$
Molecular Weight: 153.14
Accurate Mass: 153.053827
Percentage Composition: C 47.06%; H 4.61%; N 27.44%; O 20.90%
Physical Description: Yellow needles (EtOH)
Melting Point: Mp 93°

>>**Derivative:** Hydrochloride

CAS Registry Number: 636-95-3
Physical Description: Cryst. (EtOH)
Melting Point: Mp 208-210°
Aldrich: N2180-4

>>**Derivative:** Hydrochloride (1:2)

CAS Registry Number: 51516-96-2
Melting Point: Mp 195-197 dec.°

>>**Derivative:** Ac

Molecular Formula: $C_8H_9N_3O_3$
Molecular Weight: 195.177
Accurate Mass: 195.064392
Percentage Composition: C 49.23%; H 4.65%; N 21.53%; O 24.59%
Physical Description: Yellow leaflets (H_2O)
Melting Point: Mp 145°

>>**Derivative:** *N*,*N*'-Di-Ac

Molecular Formula: $C_{10}H_{11}N_3O_4$
Molecular Weight: 237.215
Accurate Mass: 237.074957
Percentage Composition: C 50.63%; H 4.67%; N 17.71%; O 26.98%
Physical Description: Plates (AcOH)
Melting Point: Mp 150°

>>**Derivative:** Benzoyl

Molecular Formula: $C_{13}H_{11}N_3O_3$
Molecular Weight: 257.248
Accurate Mass: 257.080042
Percentage Composition: C 60.70%; H 4.31%; N 16.33%; O 18.66%
Physical Description: Prismatic needles (EtOH aq.)
Melting Point: Mp 151°

>>**Derivative:** *N*,*N*'-Dibenzoyl

Molecular Formula: $C_{20}H_{15}N_3O_4$
Molecular Weight: 361.356
Accurate Mass: 361.106257
Percentage Composition: C 66.48%; H 4.18%; N 11.63%; O 17.71%
Physical Description: Yellow leaflets (AcOH aq.)
Melting Point: Mp 153°

References:

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Atkinson, C.M. *et al.*, *J.C.S.*, 1954, 165, *(synth)*
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