



>>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:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 691C, (*nmr*)

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Bischler, A., *Ber.*, 1889, **22**, 2809, (*synth*)

Grammaticakis, P., *Bull. Soc. Chim. Fr.*, 1954, 1372, (*uv*)

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

Solomon, S. *et al.*, *J.A.C.S.*, 1957, **79**, 4104, (*synth*)