



CAS Registry Number: 555-21-5

Molecular Formula: $\text{C}_8\text{H}_6\text{N}_2\text{O}_2$

Molecular Weight: 162.148

Accurate Mass: 162.042928

Percentage Composition: C 59.26%; H 3.73%; N 17.28%; O 19.73%

Use/Importance: Acid-base indicator (pH range: 11.4-12.9; colour change: orange → red)

Physical Description: Plates

Melting Point: Mp 116-117°

Aldrich: 15157-2

Fluka: 73600

>> **Derivative:** Azide

Molecular Formula: $\text{C}_8\text{H}_6\text{N}_4\text{O}_3$

Molecular Weight: 206.16

Accurate Mass: 206.043991

Percentage Composition: C 46.61%; H 2.93%; N 27.18%; O 23.28%

Melting Point: Mp 45 dec.°

Hazard & Toxicity: Explodes on rapid heating

References:

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Org. Synth., Coll. Vol., 1, 1932, 396; 406, (*synth*)

Welcher, F.J., *Organic Analytical Reagents*, Van Nostrand, New York, 1947, **3**, (*synth, use, oxime*)

Naidan, U.M. *et al.*, *J. Gen. Chem. USSR (Engl. Transl.)*, 1963, **34**, 1474, (*synth*)

Issa, R.M. *et al.*, *Spectrochim. Acta A*, 1975, **31**, 199, (*ir, uv*)

Bowie, J.H. *et al.*, *Org. Mass Spectrom.*, 1977, **12**, 436, (*ms*)

Kalir, A. *et al.*, *Synthesis*, 1987, 514, (*nitrile, synth, pmr*)

Grabowski, S.J. *et al.*, *Acta Cryst. C*, 1990, **46**, 428, (*cryst struct*)

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