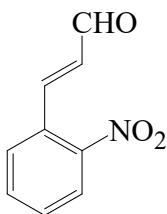




>>Entry Name: **3-(2-Nitrophenyl)-2-propenal**, 9CI

Synonym(s): *o*-Nitrocinnamaldehyde, 8CI. 3-*o*-Nitrophenylacrolein



CAS Registry Number: 1466-88-2

Related CAS Registry Numbers(s): 39909-23-4

Molecular Formula: C₉H₇NO₃

Molecular Weight: 177.159

Accurate Mass: 177.042594

Percentage Composition: C 61.02%; H 3.98%; N 7.91%; O 27.09%

Physical Description: The earlier syntheses almost certainly refer to the (*E*)-form

Fluka: 74110

Sigma: N1763

>>Variant: (*E*)-form

CAS Registry Number: 66894-06-2

Molecular Formula: C₉H₇NO₃

Molecular Weight: 177.159

Accurate Mass: 177.042594

Percentage Composition: C 61.02%; H 3.98%; N 7.91%; O 27.09%

Physical Description: Needles (EtOH or Et₂O)

Melting Point: Mp 127-127.5°

>>Derivative: (*E*)-Oxime

CAS Registry Number: 40413-00-1

Molecular Formula: C₉H₈N₂O₃

Molecular Weight: 192.174

Accurate Mass: 192.053493

Percentage Composition: C 56.25%; H 4.20%; N 14.58%; O 24.98%

Physical Description: Pearly leaflets (EtOH)

Melting Point: Mp 134°

>>Derivative: (*Z*)-Oxime

CAS Registry Number: 40412-99-5

Melting Point: Mp 140°

>>Derivative: Phenylhydrazone

Physical Description: Red needles (EtOH)

Melting Point: Mp 157.5°

References:

Mills, W.H. *et al.*, *J.C.S.*, 1920, 1035, (*synth*)

Org. Synth., 1953, **33**, 60, (*synth*)

Grammaticakis, P., *C. R. Hebd. Seances Acad. Sci.*, 1954, **239**, 883, (*uv*)

Kossmehl, G., *Chem. Ber.*, 1974, **107**, 2791, (*synth*)

Ramasamy, K. *et al.*, *Synthesis*, 1978, 311, (*synth*)