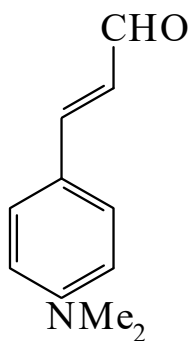




>>Entry Name: 3-[4-(Dimethylamino)phenyl]-2-propenal, 9CI

Synonym(s): 4-(Dimethylamino)cinnamaldehyde, 8CI



CAS Registry Number: 6203-18-5

Molecular Formula: C₁₁H₁₃NO

Molecular Weight: 175.23

Accurate Mass: 175.099714

Percentage Composition: C 75.40%; H 7.48%; N 7.99%; O 9.13%

Aldrich: D14040-6

Fluka: 39421

Sigma: D4506

>>Variant: (E)-form

CAS Registry Number: 20432-35-3

Type of Compound Code(s): PA2550 PS8300

Molecular Formula: C₁₁H₁₃NO

Molecular Weight: 175.23

Accurate Mass: 175.099714

Percentage Composition: C 75.40%; H 7.48%; N 7.99%; O 9.13%

Use/Importance: Used for photometric detn. of NH₃ (λ_{max} 630 nm, ϵ 45200). Used for detn. of apotryptophanase and tryptophanase. Used as 0.2% soln. in acidified MeOH for detn. of indoles

Physical Description: Yellow cryst.

Melting Point: Mp 72-73°

Solubility: Sol. EtOH

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 929C, (nmr)

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Turner, J.M., *Biochem. J.*, 1961, **78**, 790

Guseinov, I.K. *et al.*, *Azerb. Khim. Zh.*, 1978, 108; *CA*, **89**, 225540p, (detn, NH₃)

Chao, H.S.I., *Synth. Commun.*, 1988, **18**, 1641, (synth, ir, pmr)