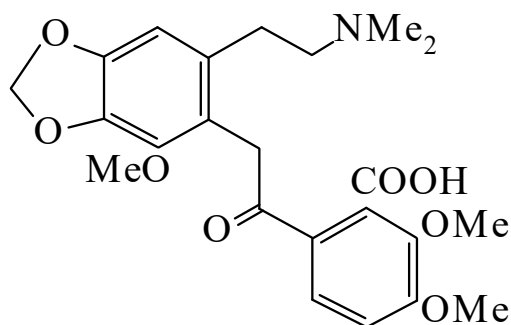




>>Entry Name: Narceine

Synonym(s): 6-[[6-[2-(Dimethylamino)ethyl]-4-methoxy-1,3-benzodioxol-5-yl]acetyl]-2,3-dimethoxybenzoic acid, 9CI



CAS Registry Number: 131-28-2

Molecular Formula: C₂₃H₂₇NO₈

Molecular Weight: 445.468

Accurate Mass: 445.173669

Percentage Composition: C 62.01%; H 6.11%; N 3.14%; O 28.73%

Biological Source: Alkaloid from *Papaver somniferum* (Papaveraceae)

Use/Importance: Respiratory stimulant, antitussive agent. Shows no analgesic activity. Antihypertensive agent. Intestinal smooth muscle stimulant. Reagent for I₂

Physical Description: Cryst. (MeOH/Et₂O or H₂O)

Melting Point: Mp 176-178° (trihydrate). Mp 145° (anhyd.)

pKa Value: pK_{a1} 3.5; pK_{a2} 9.3 (15°)

Calculated Log P Data: Log P -1.79 (uncertain value) (calc)

>>Derivative: Hydrochloride

Melting Point: Mp 192-193°

>>Derivative: Picrate

Melting Point: Mp 195°

>>Derivative: Methiodide

Melting Point: Mp 207°

>>Derivative: N-De-Me

Synonym(s): Nornarceine

CAS Registry Number: 483-89-6

Molecular Formula: C₂₂H₂₅NO₈

Molecular Weight: 431.441

Accurate Mass: 431.158019

Percentage Composition: C 61.25%; H 5.84%; N 3.25%; O 29.67%

Biological Source: Alkaloid from *Papaver somniferum* (Papaveraceae)

Melting Point: Mp 229° (223-225°)

References:

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Addinall, C.R. *et al.*, *J.A.C.S.*, 1933, **55**, 1202; 2153, (*isol, synth*)

Briggs, L.H. *et al.*, *Anal. Chem.*, 1957, **29**, 904, (*ir*)

Klötzer, W. *et al.*, *Monatsh. Chem.*, 1972, **103**, 1210, (*synth, uv, ir, pmr*)

Blaskó, G. *et al.*, *J.O.C.*, 1982, **47**, 880, (*synth, uv, pmr*)

Baggio, R. *et al.*, *Acta Cryst. C*, 1996, **52**, 703, (*cryst struct*)