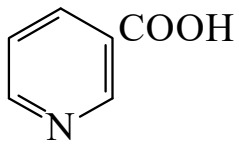
>>**Entry Name: 3-Pyridinecarboxylic acid**
ENTRY UNDER REVIEW
Synonym(s): Nicotinic acid, INN**.** Niacin, USAN. Nicamin. Nicobid. Wampocap. Many other names



CAS Registry Number: 59-67-6
Related CAS Registry Numbers(s): 1976-28-9

Molecular Formula: $C_6H_5NO_2$
Molecular Weight: 123.111
Accurate Mass: 123.032029
Percentage Composition: C 58.54%; H 4.09%; N 11.38%; O 25.99%
Biological Source: Present in fruits and other plant materials
Use/Importance: Used as 2.5% aq. soln. for extraction-photometric detn. of U(*VI*) (λ_{max} 556 nm, ε 120000).
Biological Use/Importance: Vitamin, enzyme cofactor, vasodilator. Antihyperglycaemic agent. Used to treat lipid disorders
Physical Description: Needles (H_2O or EtOH)
Development Status: Approved for clinical use in the UK (1999)
Melting Point: Mp 236° (225-227°)
Solubility: Sol. hot H_2O; spar. sol. Et_2O
pKa Value: pK_{a1} 2; pK_{a2} 4.82 (25°)
Calculated Log P Data: Log P 0.8 (calc)
Other Data: Sublimes
Hazard & Toxicity: Can cause dermal and gastrointestinal reactions and hepatic effects at high therapeutic doses. Low acute mammalian toxicity

Aldrich: N785-0
Fluka: 72310
Sigma: N0761
Supelco: 4-7864

>>**Derivative:** Na salt
Synonym(s): Nicoside. Naotin

CAS Registry Number: 54-86-4
Physical Description: Cryst. + $1.5H_2O$
Hazard & Toxicity: LD_{50} (mus, ivn) 2900 mg/kg

Aldrich: 17086-0

>>**Derivative:** Dichromate salt

CAS Registry Number: 104316-82-7
Use/Importance: Mild oxidising agent for alcohols, carbohydrates, mercaptans, hydroquinones and anthracenes
Physical Description: Orange-yellow cryst. (Me_2CO aq.)
Melting Point: Mp 215-217 dec°. Mp 235 dec.°
Aldrich: 30353-4

>>**Derivative:** Hydrochloride

CAS Registry Number: 636-79-3
Physical Description: Prisms or plates (H_2O)
Melting Point: Mp 274°

>>**Derivative:** Hydrobromide

CAS Registry Number: 51527-85-6
Boiling Point: Subl. 275°