

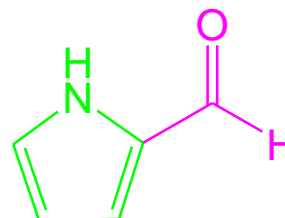
Product Information

Pyrrole-2-Carboxaldehyde

Product Number: SM16020100

Synonyms

2-Formylpyrrole



Specifications

CAS Number: 1003-29-8

M.F.: C₅NOH₅

M.W.: 95.10

Appearance (Form): Powder

Appearance (Color): Colorless to Faint Orange

Store: at 2 - 8 °C

Infrared Spectrum: Conforms to Structure

Purity (GC): ≥ 98 %

Melting Point: 43 - 45 °C

Solubility (Common Organic Solvents): Soluble

Solubility (Color; EtOH): Clear

Description

Pyrrole-2-Carboxaldehyde, also known as alpha-pyrrolaldehyde, belongs to the class of organic compounds known as aryl-aldehydes. Aryl-aldehydes are compounds containing an aldehyde group directly attached to an aromatic ring. It is an extremely weak basic (essentially neutral) compound (based on its pKa). It is an ethereal tasting compound. Outside of the human body, 1H-Pyrrole-2-carboxaldehyde has been detected, but not quantified in, several different foods, such as asparagus, coffee and coffee products, evergreen blackberries, pulses, and tea.

Applications

Pyrrole-2-carboxaldehyde is used as a pharmaceutical intermediate, key starting material for the preparation of pyrrole-2-carboxylic acid by oxidation reaction, and also for preparing 4-Difluoro-4-bora-3a,4a-diaza-s-indacene (BODIPY dyes), which is an important probes for biotechnology and other applications.

Precautions

For laboratory and research use. Not for drug, household or other uses.

Stability

Pyrrole-2-carboxaldehyde powder is stable for at least 3 months at 2 - 8 °C. Storage its stock powder at room temperature for more than 1 month may cause decomposition and yield incorrect results.

Packaging

5 and 10 g in glass bottle