



PRODUCT IN FOCUS



Indole-3-Carbinol

INTRODUCTION

Indole-3-carbinol is a colorless powder with a characteristic odor.

The product finds uses in various fields by virtue of the indole ring, which is active and mainly imparts medicinal properties to the molecule. It is also an important dietary supplement.

Manufacture

Biologically, it is produced by enzyme-catalysed hydrolysis of glucosinolate, abundantly found in cabbage, cauliflower, and other vegetables of Brassica family.

Synthetically and commercially, it is product of indole-3-acetic acid reduction.

Medicinal Uses

Indole-3-carbinol is cited to have medicinal properties and is subject of many clinical trials. It is applied in medicines to:

- ✔ prevent breast cancer
- ✔ cure obesity
- ✔ lower risk of prostate cancer recurrence

Nutritional Uses

- ✔ As an antioxidant
- ✔ Dietary supplement

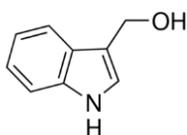
Value-added Intermediates

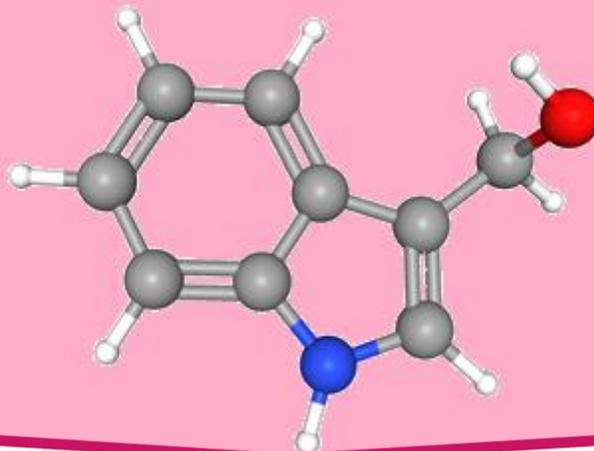
Indole-3-carbinol is used as a KRM to make various intermediates for pharmaceutical applications, such as:

- ✔ Indole-3-carboxylic acid
- ✔ Indole-3-carboxaldehyde
- ✔ Indolo[3,2b]carbazole
- ✔ 3,3'-Diindolylmethane

Synonyms	Indole-3-methanol
CAS no.	700-06-1
EINECS no.	211-836-2
Molecular formula	C ₉ H ₉ NO
Molecular weight	147.17

Structure





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SPECIFICATIONS

Test	Unit	Specification
Appearance	-	Off-white to red powder
Identification	-	Should give positive reaction
Melting range	°C	97 -100
Loss on drying	%	Max 2.0
Residue on ignition	%	Max 0.1
Residual solvents	-	Not detected
Assay by HPLC	%	Min 99.0
Total heavy metals	ppm	Max 10.0
Lead	ppm	Max 0.5
Arsenic	ppm	Max 0.5
Mercury	ppm	Max 0.1
Cadmium	ppm	Max 0.5
Particle size		
40 mesh	%	100
80 mesh	%	80
120 mesh	%	60
Microbial Test		
Total plate count	cfu/g	Max 1000
Yeast and mold	cfu/g	Max 100
Salmonella	-	Should be absent
E Coli	-	Should be absent
Staphylococcus	-	Should be absent
Pseudomonas	-	Should be absent



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CERTIFICATION

The product is offered from NSF-GMP facility supported by a DMF for Nutraceutical application.

STORAGE

Recommended storage temperature is 2° to 8°C

PACKING

10 kg bag in HDPE Drum

ExSyn offers indole-3-carbinol on commercial scale and welcomes enquiries. No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please get in touch with us.