

PRODUCT IN FOCUS

EXSYN
ESSENTIAL CHEMISTRY

Binol

INTRODUCTION

The bi-naphthol moiety is a colorless solid. The structure depicts two naphthol rings joined at the respective 1-positions. The presence of two hydroxy groups renders the molecule highly reactive and the product forms a backbone of a variety of value-added chemicals and ligands.

APPLICATIONS

The bi-naphthyl structure serves as an important ligand for asymmetric synthesis in organic chemistry, especially in Diels-Alder reactions, carbonyl addition and reductions.

Some key applications are:

2,2'-bis(diphenylphosphino)-1,1'-binaphthyl (BINAP)

(S)-Binol by resolution of the mother binol

(R)-Binol in the same resolution process

Aluminium Lithium bi(binaphthol) (its (R)-enantiomer)

(S)-Vanol

Synonyms

1,1'-bi-2-naphthol

CAS no.

602-09-5

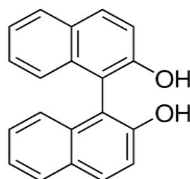
EINECS no.

210-014-0

Molecular formula

$C_{20}H_{14}O_2$

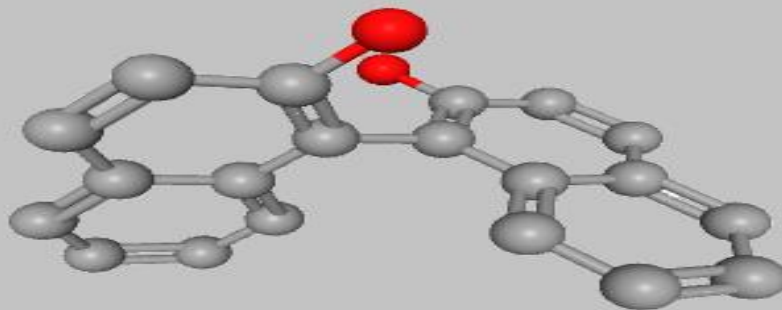
Structure



Molecular weight

286.32

A very recent but path-breaking application of Binol has been in preparation of one of the Covid-19 vaccines being developed and supplied from India.



PRODUCT IN FOCUS



Binol

SPECIFICATIONS

Test	Unit	Specification
Appearance	-	White to off-white powder
Identification By IR	-	Conforms to reference spectrum
Identification By Proton NMR	-	Conforms to reference spectrum
Purity By HPLC	%	NLT 99.0
Moisture	Wt. %	NMT 0.5

STORAGE

The product is stored at ambient temperature.

ExSyn offers this compound 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.