

# YINOX<sup>®</sup> UV-1

## Technical Data Sheet

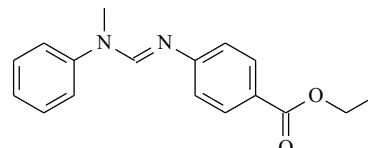
### Introduction

N-(Ethoxycarbonylphenyl)-N'-Methyl-N'-Phenylformamidine

$C_{17}H_{18}N_2O_2$

Molecular weight: 282

CAS NO. : 57834-33-0



### Physical

Appearance	Pale yellow clear liquid
Assay, %	≥ 98.50
Melting Point, °C	28–32
Boiling Point, °C	417@760mmHg
Flash Point, °C	206
Specific Gravity	1.127@20°C

#### Solubility (g/100g solvent, 25°C)

Water < 0.01	Aceton > 50	Methanol > 50	Ethylacetate > 50
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#### TGA (°C, % mass loss)

Weight loss, %	1	5	10
Temperature, °C	177	200	228

### Applications

YISTAB<sup>®</sup> UV-1 is liquid formamidine ultraviolet absorber. The effective UV absorptivity is in the region 240-350nm. The biggest absorption peak is 308nm. It can almost entirely absorb the ultraviolet radiation in the region 300-330nm. The polyurethane is easy to degrade due to the radiation of this wave range. So it has excellent light stability for the polyurethane products like flexible foam, rigid foam, elastomer, artificial leather, adhesive and coating etc. It prevents the aging and improves the color stability to prolong the service life of the products.