

# YINOX<sup>®</sup> 630

## Technical Data Sheet

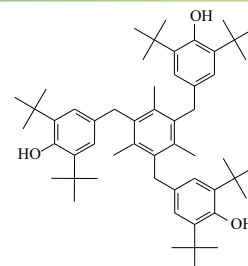
### Introduction

1,3,5-trimethyl-2,4,6-tris(3,5-di-tertbutyl-4-hydroxybenzyl)benzene

$C_{54}H_{78}O_3$

Molecular weight: 775

CAS NO.: 1709-70-2



### Physical

Appearance	White Crystalline Powder
Assay, %	≥98
Melting point, °C	244
Boiling point, °C	321
Ash, %	≤0.1
Volatility, %	≤0.5

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

Water < 0.1	Acetone 23	Methanol 0.2	Hexane 1.7
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#### TGA (°C, % mass loss)

Weight loss, %	5	10	50
Temperature, °C	346	365	415

### Applications

YINOX<sup>®</sup> 630 is a very effective hindered phenol antioxidant. It is widely used in all kinds of polymers, synthetic fiber, elastomers, adhesives, waxes, oils and oil products. It can effectively avoid thermo-oxidative degradation of these material. YINOX<sup>®</sup> 630 is used in polyolefins e.g. polyethylene, polypropylene, polybutene for the stabilization of pipes, molded articles, wires and cables, dielectric films etc. Furthermore, it is applied in other polymers such as engineering plastics like linear polyesters, polyamides, and styrene homoand copolymers. It may also be used in PVC, polyurethanes, elastomers, adhesives, and other organic substrates.

YINOX<sup>®</sup> 630 has good compatibility with most substrates, high resistance to extraction and is odorless. It offers also excellent dielectrical properties. The product can be used in combination with other additives such as costabilizers (e.g. thioethers, phosphites, phosphonites), light stabilizers and other functional stabilizers.