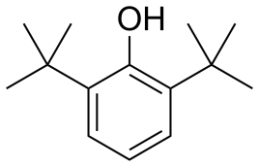
ETHANOX™ 4701

Description

ETHANOX™ 4701 is a single-ringed, phenolic antioxidant with broad applications in industrial lubricants and finished fuels. It is a commercially pure chemical with a low melting point that permits convenient bulk handling in liquid form. The major component is 2,6-di-tert-butylphenol.



2,6 di-tert-butyl phenol, CAS# 128-39-2

Features and Benefits

- ETHANOX™ 4701 provides effective oxidation inhibition in a variety of industrial oil applications including:
  - R&O inhibited oils used in steam turbines and hydraulic systems
  - Highly refined oils used for electrical insulation
  - Compounded lubricant products such as gear oils
- ETHANOX™ 4701 provides a synergistic relationship with ZDDP and other classes of antioxidants leading to greater oxidation protection while reducing overall additive concentration in lubricants
- ETHANOX™ 4701 stabilizes jet fuel as well as gasoline blend components and finished gasoline
- ETHANOX™ 4701 is a 100% phenolic antioxidant that meets all major civil and military specifications for transportation fuels
- ETHANOX™ 4701 has no water soluble phenol content and has a TTBP (2,4,6-Tri-tert-butylphenol) concentration less than 10ppm

Typical Physical Properties

Physical Form, 20°C	Solid
Color	Light Straw Yellow
Density at 20°C, mg/L	0.914
Melting Point, °C	36
Flash Point (CC), °C	114
Viscosity at 40°C, cSt	6.64

These properties are typical but do not constitute a specification either in part or as a whole. Specification data is available on request from sales, customer service or customer technical service.

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Recommend Dosage

For lubricants, the concentration of ETHANOX™ 4701 will depend upon the application.

- 0.25 wt% was effective to provide performance in R&O hydraulic oil packages
- 0.15 wt% was effective to provide performance in the stability of Transformer oils
- Up to 5 wt% was effective in doubling the useful life of a mineral base gear oil (value versus costly synthetic)

For fuels referenced above, the concentration of ETHANOX™ 4701 is usually not less than 17.2 mg/L or more than 24.0 mg/L.

The concentration for treatment of biofuels (FAME) has been shown effective in the 250-1000 mg/L range and comparable to BHT performance on a 1:1 basis.

Packaging

Bulk: Quantities and modes of shipment can be arranged
Drums: 208 L containing 186 kg

Storage and Handling

ETHANOX™ 4701 tends to darken when in contact with iron and oxygen. To protect ETHANOX™ 4701 from color changes, store it in a phenolic coated (Placite) or stainless steel tank under an inert gas (N_2) blanket. Do not use carbon steel. The following guidelines are suggested.

In-Transit Temperature, °C	55 – 65
Storage Temperature (Max), °C	40 – 50 (50)
Maximum Blend Temperature, °C	70

Shelf Life

ETHANOX™ 4701 is expected to have a minimum 24-month or 2 year shelf life.

Regulatory and Safety Information

For information regarding regulatory and safety aspects of this product, please refer to the Safety Data Sheet (SDS). For a current SDS please contact SI Group Inc.

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