



# ALBEMARLE<sup>®</sup> ETHANOX<sup>®</sup> 4778R & 4776R Fuel Antioxidants

## Description

ETHANOX 4778R and 4776R fuel antioxidants are used as stabilizers in gasoline and jet fuel. They are dilutions of ETHANOX 4701 fuel antioxidant in toluene that provide all benefits of the fullstrength product and are suitable where low-temperature handling is required.

For further information please consult the ETHANOX 4701 fuel antioxidant product data sheet.

## Typical Properties

	4701	4778R	4776R
Appearance	light straw-colored crystalline	yellow to amber liquid	yellow to amber liquid
Active phenolic antioxidant, %	99	60	80
Specific gravity	.914	.912	.927
Viscosity @ 104°F (40°), cSt, max.	6.6	1.43	2.62
Flash point (TCC) °F/°C, min.	198(94)	65.8(18.5)	77.9(25.5)
Pour point °F/°C	97(36)	-49(-45)	-49(-45)
Freeze point °F/°C	36	-10.4	10.8
2,4,6-TTBP content, ppm	<1	<1	<1

## Features

- Do not contribute to induction system deposits
- Inhibit formation of decomposition products (gum) in gasoline and jet fuel during storage
- Liquid at room temperature
- Non-corrosive and non-hydrolyzable

## Chemical Registration Numbers

CAS: mixture  
 TSCA: listed  
 EINECS: listed  
 MITI: listed, contains 2,4,6-tri-tert butyl phenol (CAS# 732-26-3)

## Safety and Handling Information

ETHANOX 4701 fuel antioxidant additive tends to supercool and can therefore rapidly crystallize when stored below its freeze point. ETHANOX 4778R & 4776R fuel antioxidant additives minimize this problem. If crystals form, low-pressure steam or drum warmers may be employed.

Before handling or using this product, the material safety data sheet (MSDS) should be read and understood. The MSDS can be obtained from your Albemarle sales representative.

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The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation and its subsidiaries. It is the responsibility of the user to comply with all applicable laws and regulations and to provide for a safe workplace. The user should consider any health or safety hazards or information contained herein only as a guide, and should take those precautions which are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patent.



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