

Etox

2-Ethyl-2-Oxazoline

PRODUCT INFORMATION SHEET

CHEMICAL SPECIFICATIONS

CHEMICAL NAME

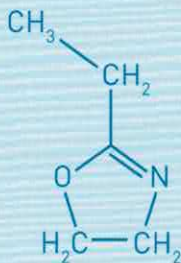
2-Ethyl-2-Oxazoline

FORMULA

C₅H₉NO

CAS#

10431-98-8



An Organic Intermediate and Monomer

Etox (2-ethyl-2-oxazoline) is an organic intermediate and monomer that is used in water-soluble polymers, pharmaceuticals, cosmetics, specialty coatings and adhesives, bactericides and herbicides.

Polymer Chemistry Innovations (PCI) uses Etox to manufacture Aquazol[®], our proprietary high-performance water-soluble polymer with applications in a wide variety of markets.

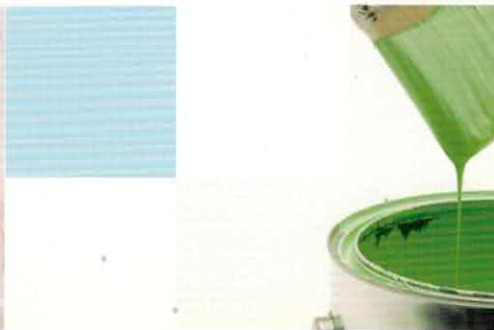
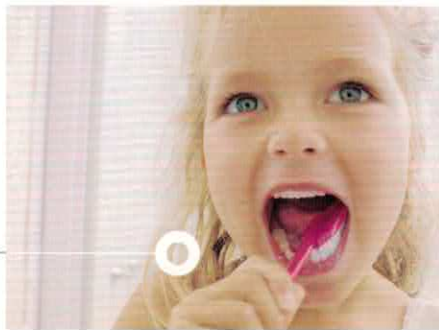
Performance Advantages

When polymerized to form Aquazol[®], Etox offers considerable advantages over similar products like PVP (polyvinyl pyrrolidone) or PVOH (polyvinyl alcohol). Its excellent thermal-processing capability makes it the preferred choice in high-temperature applications – for instance, steel quench in metalworking and hot-melt adhesive products. Aquazol is also one of the few water-soluble polymers that can be extruded.

Current Applications

Etox (2-ethyl-2-oxazoline) has diverse applications in a variety of markets, including:

- Adhesives
- Agriculture
- Bactericides
- Ceramic Binding
- Coatings, Textiles and Fiberglass
- Cosmetics
- Digital Imaging
- Herbicides
- Lubricants
- Metal Quench
- Oil and Gas
- Personal Care
- Pharmaceuticals
- Soap & Detergent
- Specialty Coatings
- Water Treatment



PHYSICAL PROPERTIES

PHYSICAL STATE

Liquid

APPEARANCE

Colorless to light yellow

pH

~ 11

VAPOR PRESSURE

6 mm Hg @ 20°C

VISCOSITY

0.88 cps @ 20°C

BOILING POINT

128.4°C @ 760 mm Hg

FREEZING/MELTING POINT

-62°C

AUTOIGNITION TEMPERATURE

410°C (770.0°F)

FLASH POINT

29°C (84.2°F)

SOLUBILITY

Miscible

SPECIFIC GRAVITY/DENSITY

.9820 g/cm³

MOLECULAR WEIGHT

99.13

More on Etox

Contact our sales team for more information on Etox at

+1 520 746 8446 or
info@polychemistry.com

Inventory and Regulatory Information

CAS

10431-98-8

Deleted Registry Number: 114730-75-5

DSL

Supplement to Canada Gazette, Part I, January 26, 1991

ECL

KE-13993 Korean Existing Chemical List, January 1997

EINECS

233-912-4 Annex to Official Journal of the European Communities, 15 June 1990

ENCS

5-5627 Japanese Gazette

Contained within class: Low Molecular Heterocyclic Organic Compounds

Supplemental Data: Biodegradable Substance

PICCS

Philippines Inventory of Chemicals and Chemical Substances, 2000

TSCA

On TSCA Inventory July 2003 Inventory Tape

About PCI

Taking Research Into Production

For more than 15 years, Polymer Chemistry Innovations (PCI) has served customers in all areas of the specialty polymers field with unique expertise in difficult processes. Our expert staff of PhDs and other experienced chemists can bring feasibility to the commercialization of polymers, with capabilities supporting all phases from laboratory scale through full-scale commercialization.

POLYMER CHEMISTRY INNOVATIONS, INC.

4231 South Fremont Avenue

Tucson, Arizona 85714

Tel +1 520 746 8446

Fax +1 520 746 8876

Email info@polychemistry.com

POLYMER CHEMISTRY CHOCOLATE BAYOU

7302 County Road 171

Alvin, Texas 77511

Tel +1 281 604 0940

Fax +1 281 604 0941

Email info@polychemistry.com

www.polychemistry.com

