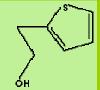
# 2-THIOPHENE ETHANOL

## PRODUCT IDENTIFICATION

CAS NO. 5402-55-1
EINECS NO. 226-452-0
FORMULA C6H8OS
MOL WT. 128.19



H.S. CODE TOXICITY

SYNONYMS Thiophen-2-ethanol; 2-Hydroxyethyl Thiophene;

2-(2-Thienyl)ethanol; 2-(2-Hydroxyethyl)thiophene; Thiophene-2-ethanol; Thiopheneethanol; 2-(2-

Thienyl)-Ethanol;

DERIVATION

# CLASSIFICATION

#### PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE Clear to yellow liquid

MELTING POINT BOILING POINT

SPECIFIC GRAVITY 1.153

SOLUBILITY IN WATER slightly soluble

рΗ

VAPOR DENSITY AUTOIGNITION

NFPA RATINGS Health: 1; Flammability: 1; Reactivity: 0

REFRACTIVE INDEX

FLASH POINT > 100 C

Stable under ordinary conditions

# **APPLICATIONS**

Thiophene, also known as thiofuran, is a cyclic compound containing four carbon atoms and one sulfur atom in the ring. Thiophene is an analog to furan and pyrrole where the sulfur atom is replaced by O and NH respectively. Thiophene is a toxic, flammable, and colorless liquid; insoluble in water (soluble in most organic solvents including alcohol and ether); melting at -38 C, boiling at 84 C. Thiophene is the simplest aromatic compound containing sulfur atom and it shares some similar chemical properties with benzene. The lone electron pairs on sulfur in the delocalized pi electron system does not exhibits the properties of thioethers but aromaticity. The sulfur atom is unreactive but the adjacent carbons are susceptible to attack by electrophiles. It is reactive toward sulfonation. In commercial thiophene can be prepared by the reaction of butane and sulfur. Thiophenes are also prepared by the reaction of diketones with Lawesson's reagent. Thiophene and its derivatives exist in petroleum or coal. Thiophene derivatives are also found in natural plant pigments. Biotin, a water-soluble B-complex vitamin, is a reduced thiophene derivative. Thiophene moiety is found in ccphalothin antiboitics. Thiophene is used as a solvent and chemical intermediate. Its derivatives are used in manufacturing dyes, aroma compounds and pharmaceuticals. They are used as monomers to make condensation copolymers. Organic conductive polymers are responsible for the important materials science for the application of polymer electro luminescence.

2-Thiophene Ethanol is used as an intermediate of such as antiplatelet drugs (Clopidogrel, Ticlopidine) used to lessen the chance of heart attack or stroke.

## SALES SPECIFICATION

APPEARANCE Clear to yellow liquid

ASSAY 99.0% min WATER 0.5% max

TRANSPORTATION

PACKING 200kgs in drum

HAZARD CLASS

UN NO.

### OTHER INFORMATION

Hazard Symbols: n/a, Risk Phrases: n/a, Safety Phrases: 24/25-28A-37-45

PRICE INFORMATION