

## MATERIAL SAFETY DATA SHEET

**IDENTITY:** ETHYL (REAGENT) ALCOHOL, ABSOLUTE

Product No. VT220, VT580

Manufactured by: Val Tech Diagnostics, Inc.  
LabChem Inc  
200 William Pitt Way  
Pittsburgh, PA 15238

Tel: 412-826-5230

Prepared: 03-10-08

Emergency No. 800-424-9300

HAZARDOUS COMPONENTS	CAS NO.	OSHA PEL	ACGIH TLV	OTHER	%
Ethanol	CAS 64-17-5	1000 PPM			89
Methanol	CAS 67-56-1	200 PPM(skin)			4.95
Isopropanol	CAS 67-63-0	400 PPM			4.95

**DOT Labeling:** Alcohols, n.o.s., (Ethanol, Methanol), Cls 3 (Flammable Liquid), UN1987, PG II

### PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 64-83 Deg C  
Vapor Pressure (mmHg): 44 mmHg @ 20 Deg C  
Vapor Density (Air=1): >1  
Specific Gravity (H2O=1): 0.7905  
Melting Point: N/A  
Evaporation Rate (Butyl Acetate=1): >1  
Solubility in Water: Complete  
Appearance/Color/Odor: Clear, colorless liquid with aromatic odor.

### FIRE AND EXPLOSION HAZARD DATA

Flash Point: 13 Deg C Method: Tagg closed cup.  
Flammable limits: LEL 2.1 (isopropanol)  
UEL 36 (methanol)  
Extinguishing Media: Alcohol type foam, Co2, or dry chemical.

Special fire fighting procedures: Use water to cool containers and to disperse vapors. Wear breathing apparatus and protective clothing.

Unusual fire and explosion hazards: Vapors form and may travel to open flames and sparks. Vapors may settle in low areas.

### REACTIVITY DATA

Stability: Stable  
Conditions to avoid: STORAGE AT HIGH TEMPERATURES.  
Materials to avoid/Incompatibility: Oxidizing agents, nitric acid, and sulfuric acid.

Hazardous Decomposition/Byproducts: Carbon dioxide and carbon monoxide.  
Hazardous Polymerization: Will not occur.

**Ethyl Alcohol, Absolute Continued.....**

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**HEALTH HAZARD DATA**

Routes of entry: Inhalation, skin, ingestion.

Health Hazards: Acute- Poisonous. Can cause nausea, vomiting, headache, drowsiness, drunken behavior, fatigue, weakness, confusion, abdominal pain, or coma.

Chronic- May be fatal if ingested.

Signs of Exposure: Nausea, vomiting, headache, drowsiness, dizziness, faintness, euphoria, decreased awareness, shortness of breath, leg cramps, visual disturbances, coma, or death.

Emergency and First Aid Procedures:

Eye Contact: Rinse eyes for at least 15 minutes with water, and consult medical help.

Skin Contact: Rinse skin for at least 15 minutes with water.

Ingestion: If ingested and conscious, induce vomiting, seek medical help immediately.

Inhalation: Remove to fresh air, perform artificial respiration if needed.

Medical Conditions Aggravated by Exposure: Respiratory, coronary, and liver conditions.

Carcinogenicity: None known.

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**PRECAUTIONS FOR SAFE HANDLING AND USE**

**Precautions to be taken in handling and storage: Store in a flammable safety cabinet or room. Use in well-ventilated area, keep away from any open flames, sparks, or sources of ignition.**

Spill or Release Procedures: Absorb material with a nonflammable material such as sand and place in a sealed container. Notify personnel to clear area. Turn off any sources of flame or sparks.

Spill or Release: "Reportable Quantity" (RQ) to National Response Center 1-800-424-8802, 40 CFR Part 302: None  
Waste Disposal Methods: Dispose of in accordance with all local, state, and federal regulations.

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**CONTROL MEASURES/PERSONAL PROTECTION**

Respiratory Protection: NIOSH approved respirator if PEL exceeded.

Eye Protection: Goggles or full face shield.

Protective Gloves: Neoprene or PVC

Protective Clothing: Outer garments not affected by the product.

Ventilation Requirements: Non sparking system.

Work and Hygienic Practices: Handle as a highly flammable liquid and wear appropriate personal safety equipment.

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**OTHER**

NFPA Hazard Rating: Health- 0

Flammability- 3

Reactivity- 0

KEY: 0-None, 1-Slight, 2-Moderate, 3-Severe, 4-Extreme

SARA TITLE III- In compliance with Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR Part 372 the following toxic chemicals are present: Methanol CAS 67-56-1 Upper bound concentration: 4.7%

THE ABOVE INFORMATION IS BELIEVED TO BE TRUE AND CORRECT AT THIS TIME. HOWEVER NO GUARANTEE IS EXPRESSED OR IMPLIED.