

# TRIETHYLBENZENE

TEB

CAUTIONARY RESPONSE INFORMATION				4. FIRE HAZARDS	7. SHIPPING INFORMATION
Common Synonyms 1,3,5-Triethylbenzene sym-Triethylbenzene	Liquid	Colorless	Weak chemical odor	4.1 Flash Point: 181°F O.C. 4.2 Flammable Limits in Air: Currently not available 4.3 Fire Extinguishing Agents: Dry chemical, foam, or carbon dioxide 4.4 Fire Extinguishing Agents Not to Be Used: Water may be ineffective. 4.5 Special Hazards of Combustion Products: Not pertinent 4.6 Behavior in Fire: Not pertinent 4.7 Auto Ignition Temperature: Currently not available 4.8 Electrical Hazards: Not pertinent 4.9 Burning Rate: Currently not available 4.10 Adiabatic Flame Temperature: Currently not available 4.11 Stoichiometric Air to Fuel Ratio: 78.5 (calc.) 4.12 Flame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactant to Product): 21.0 (calc.) 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	7.1 Grades of Purity: Currently not available 7.2 Storage Temperature: Ambient 7.3 Inert Atmosphere: No requirement 7.4 Venting: Open (flame arrester) 7.5 IMO Pollution Category: A 7.6 Ship Type: 2 7.7 Barge Hull Type: Currently not available
Call fire department. Avoid contact with liquid. Notify local health and pollution control agencies.				8. HAZARD CLASSIFICATIONS	
Fire	Combustible. Extinguish with dry chemical, foam, or carbon dioxide. Water may be ineffective on fire. Cool exposed containers with water.				8.1 49 CFR Category: Not listed 8.2 49 CFR Class: Not pertinent 8.3 49 CFR Package Group: Not listed. 8.4 Marine Pollutant: Yes 8.5 NFPA Hazard Classification: Category Classification Health Hazard (Blue)..... - Flammability (Red)..... 2 Instability (Yellow)..... 0
Exposure	CALL FOR MEDICAL AID.  LIQUID Irritating to skin and eyes. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water.				8.6 EPA Reportable Quantity: Not listed. 8.7 EPA Pollution Category: Not listed. 8.8 RCRA Waste Number: Not listed 8.9 EPA FWC List: Not listed
Water Pollution	Effect of low concentrations on aquatic life is unknown. Fouling to shoreline. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.				9. PHYSICAL & CHEMICAL PROPERTIES
1. CORRECTIVE RESPONSE ACTIONS	1. Stop discharge Contain Collection Systems: Skim Chemical and Physical Treatment: Absorb Clean shore line Salvage waterfowl				9.1 Physical State at 15°C and 1 atm: Liquid 9.2 Molecular Weight: 162.27 9.3 Boiling Point at 1 atm: 421°F = 216°C = 489°K 9.4 Freezing Point: Not pertinent 9.5 Critical Temperature: Not pertinent 9.6 Critical Pressure: Not pertinent 9.7 Specific Gravity: 0.861 at 20°C (liquid) 9.8 Liquid Surface Tension: Currently not available 9.9 Liquid Water Interfacial Tension: Currently not available 9.10 Vapor (Gas) Specific Gravity: Not pertinent 9.11 Ratio of Specific Heats of Vapor (Gas): 1.039 9.12 Latent Heat of Vaporization: (est.) 120 Btu/lb = 65 cal/g = 2.7 X 10 <sup>4</sup> J/kg 9.13 Heat of Combustion: Currently not available 9.14 Heat of Decomposition: Not pertinent 9.15 Heat of Solution: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 0.03 psia
2. CHEMICAL DESIGNATIONS	2.1 CG Compatibility Group: 32; Aromatic Hydrocarbon 2.2 Formula: C <sub>9</sub> H <sub>12</sub> (C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> -1, 3, 5 2.3 IMO/UN Designation: Not listed 2.4 DOT ID No.: Not listed 2.5 CAS Registry No.: Currently not available 2.6 NAERG Guide No.: Not listed 2.7 Standard Industrial Trade Classification: 51129				9.14 Notes
3. HEALTH HAZARDS	3.1 Personal Protective Equipment: Goggles or face shield; rubber gloves. 3.2 Symptoms Following Exposure: Eye irritation by vapors or liquid. Central nervous system depression. Prolonged skin contact with liquid can cause dermatitis. 3.3 Treatment of Exposure: EYES: flush with water for at least 15 min.; call a doctor. SKIN: wipe off, wash with soap and water. 3.4 TLV-TWA: Not listed. 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: Currently not available 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: Currently not available 3.10 Vapor (Gas) Irritant Characteristics: Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary. 3.11 Liquor or Solid Characteristics: Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin. 3.12 Odor Threshold: Currently not available 3.13 IDLH Value: Not listed. 3.14 OSHA PEL-TWA: Not listed. 3.15 OSHA PEL-STEL: Not listed. 3.16 OSHA PEL-Ceiling: Not listed. 3.17 EPA AERG: Not listed				

# TRIETHYLBENZENE

TEB

9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
52	54.240	42	0.478	41	1.040	41	2.880
54	54.170	44	0.478	42	1.040	42	2.837
56	54.100	46	0.478	43	1.040	43	2.795
58	54.030	48	0.478	44	1.040	44	2.753
60	53.960	50	0.478	45	1.040	45	2.712
62	53.890	52	0.478	46	1.040	46	2.673
64	53.820	54	0.478	47	1.040	47	2.633
66	53.750	56	0.478	48	1.040	48	2.595
68	53.680	58	0.478	49	1.040	49	2.557
70	53.610	60	0.478	50	1.040	50	2.520
72	53.540	62	0.478	51	1.040	51	2.484
74	53.480	64	0.478	52	1.040	52	2.448
76	53.410	66	0.478	53	1.040	53	2.413
78	53.340	68	0.478	54	1.040	54	2.379
80	53.270	70	0.478	55	1.040	55	2.345
82	53.200	72	0.478	56	1.040	56	2.312
84	53.130	74	0.478	57	1.040	57	2.279
86	53.060	76	0.478	58	1.040	58	2.247
88	52.990			59	1.040	59	2.216
90	52.920			60	1.040	60	2.185
92	52.850			61	1.040	61	2.155
94	52.780			62	1.040	62	2.125
96	52.710			63	1.040	63	2.096
98	52.640			64	1.040	64	2.067
100	52.570			65	1.040	65	2.039
102	52.500			66	1.040	66	2.011

9.24 SOLUBILITY IN WATER		9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
I		120	0.023	120	0.00060	0	0.289
N		140	0.044	140	0.00112	25	0.303
S		160	0.061	160	0.00198	50	0.316
O		180	0.142	180	0.00336	75	0.330
L		200	0.240	200	0.00549	100	0.343
U		220	0.390	220	0.00868	125	0.356
B		240	0.617	240	0.01333	150	0.369
L		260	0.947	260	0.01989	175	0.382
E		280	1.418	280	0.02897	200	0.395
		300	2.073	300	0.04125	225	0.407
		320	2.967	320	0.05753	250	0.419
		340	4.164	340	0.07871	275	0.432
		360	5.739	360	0.10580	300	0.443
		380	7.779	380	0.14000	325	0.455
		400	10.380	400	0.18260	350	0.467
		420	13.660	420	0.23480	375	0.478
						400	0.489
						425	0.501
						450	0.511
						475	0.522
						500	0.533
						525	0.543
						550	0.553
						575	0.563
						600	0.573