Toluene

1. IDENTIFICATION

CHEMICAL NAME: Toluene

CHEMICAL FORMULA: C_7H_8

CAS No.: 108-88-3

MOLECULAR WEIGHT: 92,13

2. FEATURES

Chemical Composition

COMPONENTS	VALUE	UNITS
Acidity	0	% m/m
Benzene Content	13	ppm
Colour Hazen	< 5	HAZEN
Density at 20° C	0,866	g/cm³
Distillation range max	110.7	°C
Distillation range min	110.4	°C
Non aromatics	0,04	% vol
Purity	99,95	% m/m
Refractive index	1,497	-
Visual aspect	pass test	-
Water	0.0046	% m/m
Assay by GLC	99.95	%

Physical Features

COMPONENTS	
Physical State	Liquid
Colour	Colourless
Odour	Typical (aromatic)
pH	Not applicable (non dissociable product)
Melting point	-95 ºC
Boiling point	110,6 ºC
Flash Point	4,4 ºC (closed cup)
Temperature of self-igniting	480 ºC
Explosion limits in air	
- Lower (LEL)	1,2 %
- Higher (LSE)	7,1 %.
Vapour Pressure	36,7 mmHg @ 30 ºC

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PROPERTIES	
Vapour density (air=1)	3,2
Density (water = 1)	0,867 @ 20 ºC
Viscosity	0,59 cP @ 20 ºC.
Surface tension	29,0 din/cm @ 20°C
Solubility	- In water: Practically insoluble - In Organic solvents: Soluble in acetone, glacial acetic acid, benzene, chloroform, carbon disulfide, ethanol, petroleum ether and diethyl ether.

3. APPLICATION

- Additive in fuels
- Solvent in paints, coatings, rubber, resins
- Diluent in lacquers and adhesives.
- Production of phenol, benzene and other substances

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