



Styrene Monomer

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Catalog Nr. Q032

Definition Styrene, also known as vinyl benzene as well as many other names (see table), is an organic compound with the chemical formula $C_6H_5CH=CH_2$. This aromatic hydrocarbon is a colorless oily liquid that evaporates easily and has a sweet smell, although high concentrations confer a less pleasant odor. Styrene is the precursor to polystyrene and several copolymers

CAS Number 100-42-5

Application The presence of the vinyl group allows styrene to polymerize. Commercially significant products include polystyrene, ABS, styrene-butadiene (SBR) rubber, styrene-butadiene latex, SIS (styrene-isoprene-styrene), S-EB-S (styrene-ethylene/butylene-styrene), styrene-divinylbenzene (S-DVB), and unsaturated polyesters. These materials are used in rubber, plastic, insulation, fiberglass, pipes, automobile and boat parts, food containers, and carpet backing.

Technical Data PROPERTIES

Flash point:	31C (88F) CC
Appearance:	Colorless to yellow oily liquid.
Odor:	Penetrating odor.
Solubility:	Negligible (< 0.1%)
Density:	0.9059 @ 20C
% Volatiles by volume @ 21C (70F):	100
Boiling Point:	145 - 146C (293 - 295F)
Melting Point:	- 30.6C (-24F)
Vapor Density (Air=1):	3.6
Vapor Pressure (mm Hg):	5 @ 20C (68F)

Packaging & Handling 410 lb drums

UN Number 2055

Class 3

Packaging Group III

Remarks