Darwin Chemical Company

600 N Pine Island Road Plantation FL 33324-1311



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 C6H5CH=CH2. 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

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