

General

Synonyms: epoxyethylbenzene, epoxystyrene, styrene epoxide, 1-phenyl-1,2-epoxyethane, 1-phenyloxirane, styrene-7,8-oxide, styryl oxide

Molecular formula: C₈H₈O

CAS No: 96-09-3

EC No:

Physical data

Appearance: colourless to light yellow liquid

Melting point: -37 C

Boiling point: 194 C

Vapour density: 4.14 (air = 1)

Vapour pressure: 0.3 mm Hg at 20 C

Density (g cm⁻³): 1.052

Flash point: 79 C

Explosion limits:

Autoignition temperature:

Water solubility: negligible

Stability

Unstable - polymerises readily with compounds possessing a labile hydrogen (such as acids and alcohols) in the presence of acids, bases or some salts. Combustible. Incompatible with strong oxidizing agents, acids, bases. Moisture sensitive.

Toxicology

Experimental carcinogen. Equivocal tumorigenic agent. Harmful if swallowed or inhaled. Corrosive. Irritant.