

Styrene Monomer (inhibited)

Synonym product : vinyl benzene, ethenylbenzene, phenethylene

Chemical formula : C H CH=CH
6 5 2

Specification

Purity, % weight
Ethylbenzene mg/kg
Polymer content mg/kg
Water content, ppm weight
Colour (APHA)
Inhibitor (ppm PTBC)

Limits

Min. 99.8
Max. 500
Max. 10
Max. 200
Max. 10
ppm 10-15

Test methods

GC
GC
ASTM D2121
ASTM E1064
ASTM D1209
ASTM D4590

Physical properties

| | |
|--|-----------------------------------|
| Appearance | colourless liquid |
| Specific gravity 25·C/ 25·C | 0.9044 |
| Molecular weight | 104.1 |
| Boiling point ·LC, 101.3 kPa, 760 mmHg | 145 |
| Freezing point ·C | -30.6 |
| Vapor pressure at 15·C, Pa, 4.3 mmHg | 573 |
| Flash point closed cup ·C | 31 |
| Flash point open cup ·C | 37 |
| Auto ignition temperature, ·C | 490 |
| Explosion limits in air at 23·C,% volume | 1.1 - 1.6 |
| Corrosivity | corrodes copper and copper alloys |

CAS Reg Nr. : 100-42-5
Un Nr. : 2055
ADR/RID : 3, 31c

STAT Nr. : 2902-50-00
CUS Nr. : 23726
EINECS : 202-851-5
EEC Nr. :

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