

CAS Number: 95-47-6

Other Names: O-Xylene; 1,2-Dimethylbenzene; Ortho-Xylene; 1,2-Xylene

Formula: $C_6H_4(CH_3)_2$ or C_8H_{10}

PRODUCT INTRODUCTION

O-xylene is a xylene substituted by methyl groups at positions 1 and 3. It appears as a colorless watery liquid with a sweet odor. It is less dense than water and insoluble in water.

PHYSICAL AND CHEMICAL PROPERTIES

Styrene	< 0.010
Cumene	0.1748
o-Xylene	99.29
Total Aromatics	99.81
Specific Gravity 60/80°F	0.8840
Color (Pt-Co)	5
Appearance	Pass

APPLICATIONS

- Orthoxylene (OX) is the second largest of the three commercial isomers of xylene.
- Almost all orthoxylene output is consumed in the manufacture of phthalic anhydride (PA), which is used to make plasticizers used in compounding polyvinyl chloride resins, unsaturated polyesters used in glass-reinforced thermoset engineering applications, and alkyd resins used mainly for surface coatings.
- Small quantities are used in solvent applications (which are declining) and to make bactericides, soya bean herbicides and lube oil additives.
- A new outlet is in the production of polyethylene naphthalate (PEN) polymer, which is a high performance polyester used in film and rigid packaging where performance needs are more rigorous than polyethylene terephthalate products.

PACKAGING OPTIONS

Drums
