



2,2-Dimethyl-1,3-propanediol(TDS)

basic information

English name: 2,2-Dimethyl-1,3-propanediol

CAS No.: 126-30-7

Molecular formula: $C_5H_{12}O_2$

Molecular weight: 104.14800

PSA: 40.46000

physico-chemical property

Physical state: white crystalline solid / colorless transparent liquid

Density: 1.06

Melting point: 126-128 °C

Boiling point: 208 °C

flash point: 107 °C

Refractive index: 1.443

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Aqueous solubility: 830 g/L (20 °C)

Stability : Stable. Incompatible with strong oxidizing agents, acetic anhydride, acid chlorides, moisture. Combustible.

Vapour pressure: 0.0215mmHg at 25° C

Vapour density: 3.6 (vs air)

Application

Mainly as the production of unsaturated polyester resin; Oil-free alkyd resin; Polyurethane foams and elastomers plasticizer, advanced lubricant additives and other fine chemicals. It is also an excellent solvent for the selective separation of aromatic and cycloalkyl hydrocarbons. Neopentadiol is resistant to water and chemicals medicine. Weather resistance. Its amino baking paint has good light retention and does not yellowing. It can also be used as raw material for producing polymerization inhibitors, stabilizers and insecticides. Polyester resin heat stabilizer, a lubricant of superior lubricants, plasticizers.