

Technical Data Sheet

TamiSolve® NxG-PS

Applications

- Pharmaceutical chemicals

Key Attributes

- Pharmaceutical processing and synthesis

Product Description

TamiSolve™ NxG-PS is a high-boiling, dipolar aprotic solvent. TamiSolve NxG-PS has good solvency for a wide range of compounds and has high chemical and thermal stability.

TamiSolve NxG-PS has an established performance in various pharmaceutical applications in small molecules and peptides synthesis.

In many applications it can be used to replace NMP or NEP (N (m)ethylpyrrolidone), DMAc as well as other solvents like dimethyl sulfoxide (DMSO) and Acetonitrile. As opposed to NMP and NEP, TamiSolve NxG-PS is not classified as developmental toxin.

Typical Properties

Property	Typical Value, Units
General	
Molecular Formula	C ₈ H ₁₅ NO
Molecular Weight	141.21 g/mol
Autoignition Temperature	212 °C
Boiling Point	241 °C
Density	
@ 25°C	0.96 g/cm ³
Flammability limits in air	
Lower	0.9 Vol %
Upper	8.7 Vol %
Flash Point	
Closed Cup	108 °C
Freezing Point	<-75 °C
Hansen Solubility Parameters	
Dispersion	17.8 (MPa) ^{1/2}
Hydrogen Bonding	5.9 (MPa) ^{1/2}
Polar	8.2 (MPa) ^{1/2}
Total	20.5 (MPa) ^{1/2}
Heat of Combustion	35 580 kJ/kg
pH	
10% solution in water	7.65
Refractive Index	1.4675
Specific Heat	
@ 20°C	1.98 J/g.K
Surface Tension	
1% aqueous solution	67.31 mN/m
Thermal Conductivity	
@ 25°C	121 mW/m.K

Vapor Pressure @ 25°C	13 Pa
Viscosity @ 25°C	4 mPa·s
Water solubility	Completely miscible

Packaging

- Bulk
- PE drums (200 kg net)
- IBC containers (970 kg net)

Storage

It is advised to store TamiSolve® NxG-PS under a nitrogen blanket.
A carbon steel tank is adequate for storing TamiSolve® NxG-PS.

Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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