

n-Propanol

Description:

n-Propanol is a colourless, mobile, neutral liquid and has a characteristic alcoholic odour. It is freely miscible with water and all common solvents such as alcohols, ketones, aldehydes, ethers, glycols, aromatic and aliphatic hydrocarbons.

Specification:

SPECIFICATION OF N-PROPANOL		
ITEMS		SPECIFICATION
1.Assay	%	99.5 min.
2.Water	%	0.2 max.
3.Color	APHA	10 max.

Physical Properties:

Boiling Point (760 torr)	97°C
Solidification Point (760 torr)	-127°C
Specific Gravity (20°C/20°C)	0.804
Flash Point	23°C
Ignition Temperature	412°C

Application:

n-Propanol is used as a solvent and as an intermediate. It shows less tendency to absorb water than lower alcohols, and has a considerably milder and more pleasant odour than higher alcohols.

The main application as a solvent is in flexographic and other printing inks. In the coatings industry, n-propanol is a useful medium-volatility alcohol to improve the drying characteristics, e.g. of alkyd resins, electrodeposition paints and baking finishes.

It is added to cleaners, floor polishes and metal degreasing fluids and is used as an additional solvent in the manufacture of adhesives.

n-Propanol is also present in de-icing fluid and is used as extractant and entrainer in azeotropic distillation.

n-Propanol is a feedstock in the manufacture of insecticides, herbicides and pharmaceuticals. Its esters are prepared in usual way with acid catalysts. It reacts with ammonia to form propylamines and with halogens to form the corresponding propyl halides

Storage and Handling

Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid).