

Propylheptanol

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BASF
The Chemical Company

Technical Data Sheet February 2007

Formula: C₁₀H₂₂O
Molecular Weight: 158.3
Product Number: 30161724
CAS registry numbers:
10042-59-8
66256-62-0
159848-27-8

Description

Propylheptanol is a mixture of isomeric decyl alcohols: 2-propylheptanol, 4-methyl-2-propylhexanol and 5-methyl-2-propylhexanol.

It is a clear and colorless, high boiling liquid with a mild characteristic odor. It is miscible with most common organic solvents but has very low water solubility.

Propylheptanol enters into reactions typical for primary alcohols. For example, it readily forms esters with various carboxylic acids.

Phthalate esters prepared from this alcohol offer a number of advantages for flexible PVC applications, such as low volatility in vinyl for automotive products, long-term property retention, and excellent outdoor performance properties.

Safety

Handle in accordance with good industrial hygiene and safety practices.

Avoid eye contact by wearing personal protective equipment. If eye contact occurs, wash with flowing water and contact physician. Avoid repeated or prolonged skin contact. Avoid breathing vapors by providing adequate ventilation.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on safety.

Product Specifications	Value	Test Method
Total C10 Alcohols, wt. %, minimum	99.5	G.C.
2-Propylheptanol, wt. % minimum	85.0	G.C.
4-Methylpropylhexanol and 5-Methylpropylhexanol, wt. % maximum	15.0	G.C.
Water, wt. %, maximum	0.1	ASTM E203
Color, Pt-Co units, maximum	10	ASTM D5386
Acid number, mg KOH/g, maximum	0.1	ASTM D1613

Physical Properties

Specific Gravity @ 25/25 °C	0.8286
Distillation Range @ 1013 mbar, °C	207 – 212
Freezing Point, °C	<50
Refractive Index, n _D 20	1.4371
Viscosity, @25°C, cP	12.8
Appearance	Clear and colorless

Storage & handling

Propylheptanol can be stored in tanks and drums constructed from carbon steel. If severe demands are imposed on the product quality, it is recommended that storage be in tanks constructed from stainless steel.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

Customer Service

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