DuPont™ Tyzor® Organic Titanates
Product Information – Tyzor® 9000

Description

DuPont™ TYZOR® 9000 is tetra-t-butyl titanate, CAS# 3087-39-6, that contains <10% (mole) residual isopropoxy groups. The product is a colorless liquid that is essentially solvent free.

Typical Properties

Property	*Value*
TiO2 Content	22.7-24.2% (wt)
Molecular Weight	Ca 340
Pour Point	Ca -40°C
boiling point	63-65°C/2 mmHg
Flash Point	21°C
Density g/cc (25°C)	0.89
Viscosity	3.5 cP (25°C)
Refractive Index n(20,D)	1.444

* This table gives typical properties based on historical production performance. DuPont does not make any express or implied warranty that these products will continue to have these typical properties.

Benefits

TYZOR® 9000 affords a clear product that is less reactive than TYZOR® TPT and some of the other titanate esters.

Stability in water:
Using DI water, and D.I water adjusted to pH 4 with HCl and pH 11 with NaOH, precipitation was immediate upon adding the TLF-9000 to the water. Immediate precipitation also occurred when pure (from TiCl4) t-butyl titanate was used.

Solubility in various solvents (10% wt.):

Solvent	***Solubility***
Methanol	forms white ppt.(methyl titanate)
Ethanol, abs.(punctilious)	Soluble
Ethanol/MeOH denaturant)	forms white ppt. (methyl titanate)
Isopropanol:	Soluble
Heptane:	Soluble
Toluene:	Soluble
Acetone:	Soluble but forms white ppt if any water present.
Methyl ethyl ketone:	Soluble
Methyl isobutyl ketone:	Soluble
Acetic acid (glac.)	Soluble
Dimethyl formamide	partially soluble; some ppt
Dimethyl acetamide	Soluble
Ethyl acetoacetate	soluble, but dark amber
Methylene chloride	Soluble

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Contact Information

Web Site http://www.dupont.com/tyzor
Email: tyzor@usa.dupont.com
Phone: 800-255-4596 or 302-992-2894

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