

PEROXAN NPO Diacyl peroxides / Polymerization

Description

	75%, Solution in odorless white spirits				
	PEROXAN NPO is used for the (co)polymerization of ethylene, vinylchloride, vinylidenchloride, acrylates and methacrylates.				
	CH ₃ V-CH ₂ -CH ₂ -CH ₂ -C-O- H ₃ C-C-C-C-C-C- H ₃ C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-	0 CH3 II I 0 C CH2 CH-C	СН3 СН2 СН3 СН3 СН3		
	Molecular weight: CAS No.:			314.5 3851-87-4	
Technical data	Appearance: Peroxide assay: Active oxygen assay: Density at 0°C:			clear liquid appx. 75% appx. 3.82% 0.87 g/cm ³	
Half life time	in chlorobenzene:				
	t _½ 10h	1h	1min		
	bei 59°C	77°C	112°C		
Storage	Maximum storage temperature (Ts max):0°CMinimum storage temperature (Ts min):-8°C to prevent crystallizationStorage stability as from date of delivery:3 months			-8°C to prevent crystallization	
Hazardous reactions	Organic Peroxides are more or less stable products but will decompose under the influence of heat. To minimize a loss of quality during storage, it is important that the recommended maximum storage temperature is not exceeded. If a minimum storage temperature is given, an undesirable process such as a solidification or phase separation, is known to occur below this temperature.				
Safety characteristics	SADT:20°CEmergency temperature:10°CControl temperature:0°C				
	The SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which a self accelerating decomposition may occur.				
	The emergency temperature is derived from the SADT. It is the temperature at which emergency actions have to				

Di-(3,5,5-trimethylhexanoyl)-peroxide



be taken. The control temperature is the maximum temperature at which the product can be transported safely.



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Application	Polymerization of ethylene: PEROXAN NPO is used for high pressure polymerization of ethylene in both autoclave and tubular processes, usually in combination with other peroxides of varying degrees of activity.				
	Temperature range: 150 to 190°C Light-off temperature at 2300 bar: 165°C				
	Polymerization of vinylchloride: PEROXAN NPO may be used in the suspension polymerization of vinylchloride.				
	Temperature range: 50 to 70°C Dosing: 0,1 to 0,3 phr				
	Polymerization of acrylates and methacrylates: PEROXAN NPO can be used as initiator for the solution, bulk and suspension (co)polymerization of acrylates and methacrylates.				
	Temperature range: 50 to 70°C Dosing: 0,1 to 0,3 phr				
	Other applications: PEROXAN NPO may also be used for the (co)polymerization of vinylidenchloride.				
Packaging	25kg container				
Major decomposition products	2,2,4,7,9,9-Hexamethyldecane, 2,4,4-Trimethylpentane, Carbon dioxide				
Safety and handling	Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN NPO. This information should be thoroughly reviewed prior to acceptance of this product. The MSDS is available for downloading at www.pergan.com or through contacting Pergan directly.				

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Schlavenhorst 71 D-46395 Bocholt Germany