

SOLID ORGANO PHOSPHITES

DOVERPHOS S-9228® Bis (2, 4-dicumylphenyl) pentaerythritol diphosphite	
Appearance	Off-white free-flowing powder
Melting Point, ° C	225
Phosphorus, %	7.3
DOVERPHOS S-480 Tris (2, 4-di-tert-butylphenyl) phosphite	
Appearance	White free-flowing powder
Melting Point, °C	180 min.
Phosphorus, %	4.8
Volatility, % @ 105°C/2 hr	0.3 max.
Assay, %	99 min.
DOVERPHOS S-680 Distearyl pentaerythritol diphosphite	
Appearance	White Flake
Refractive Index @ 60° C	1.455 – 1.459
Specific Gravity @ 60° C	0.923 – 0.938
Acid Number, mgKOH/gm	0.5 max.
Phosphorus, %	7.5 – 8.4
DOVERPHOS S-682 Distearyl pentaerythritol diphosphite plus triisopropanolamine	
Appearance	White Flake
Refractive Index @ 60°C	1.455 – 1.459
Specific Gravity @ 60° C	0.923 – 0.938
Acid Number, mgKOH/gm	0.5 max.
Phosphorus, %	7.5 – 8.4

PLEASE NOTE: These typical analyses are representative of current production. They are subject to change without notice.

Uncompromising Quality

Dover Chemical is proud to have earned ISO9001:2015 certification in recognition of our ongoing commitment to uncompromising quality. We were initially certified in 1993 by Quality Systems Registrars, Inc. and continue to improve our quality systems and processes. Dover Chemical's quality management system encompasses both the Dover, Ohio and the Hammond, Indiana facilities for the design and manufacture of antioxidants, flame retardants, lubricant additives, specialty chemicals, metal working compounds and fuel additives. Our certification number is QSR-130.

Quality Policy

Dover Chemical is committed to meeting customer requirements through the design, manufacture and supply of quality products and services while complying with all applicable government regulations and minimizing waste and environmental impact.

We will measure our performance to enhance customer satisfaction and to continually improve our Quality Management System by focusing on quality objectives and policies throughout the organization.

Responsible Care

Dover Chemical joins other members and partners of the American Chemistry Council in our dedication to the principles of Responsible Care, including product stewardship, community awareness, emergency response, pollution prevention, process safety, distribution, and employee health & safety. We have reached 100% practice in place and are continuing to access and improve our practices



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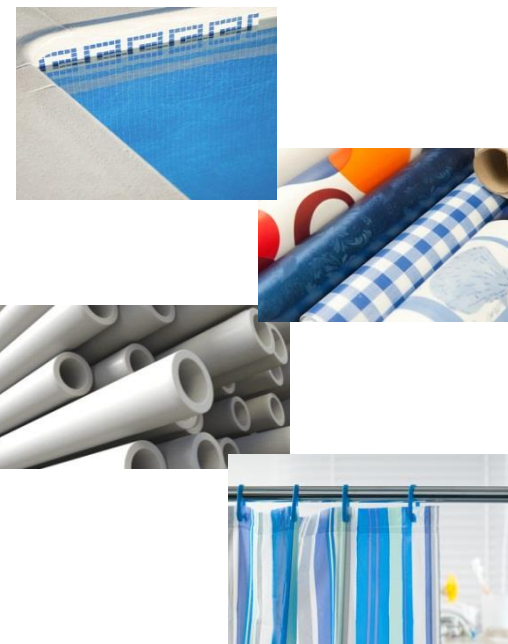
All typical properties in this bulletin are based upon tests and data believed to be reliable. They should not be interpreted as specifications, which must be agreed-upon individually by the buyer and seller. Since actual use of these products by others is beyond our control, no guarantee, expressed or implied, is made by Dover Chemical Corporation as to the effects of such use or the results to be obtained.



Certificate Number: QSR-130



DOVERPHOS® ORGANIC PHOSPHITES



Aryl Organo Phosphites
**Aryl-Alkyl Organo
Phosphites**
Alkyl Organo Phosphites
Solid Organo Phosphites



Typical Properties

PRODUCT	CHEMICAL NAME	COLOR	ACID NUMBER (mgKOH/gm)	REFRACTIVE INDEX @ 25°C	SPECIFIC GRAVITY @ 25°C / 15.5°C	APPEARANCE	% P	DENSITY Lb/gal	VISCOSITY cps @ 25°C
ARYL ORGANO PHOSPHITES									
DOVERPHOS 4 (TNPP)	Trisnonylphenyl phosphite	75 max. APHA	0.1 max.	1.5255-1.5280	0.980-0.992	Clear Liquid	4.3	8.2	6000
DOVERPHOS 4-HR (TNPP)	Trisnonylphenyl phosphite (with TIPA)	75 max. APHA	0.3 max.	1.5250-1.5280	0.980-0.992	Clear Liquid	4.3	8.2	6400
DOVERPHOS 4-HR Plus (TNPP)	Trisnonylphenyl phosphite (with TIPA)	75 max. APHA	0.3 max.	1.5250-1.5280	0.980-0.992	Clear Liquid	4.3	8.2	6500
DOVERPHOS HIPURE® 4 (TNPP)	Trisnonylphenyl phosphite*	75 max. APHA	0.1 max.	1.5275-1.5295	0.980-0.997	Clear Liquid	4.5	8.2	7700
DOVERPHOS HIPURE 4-HR (TNPP)	Trisnonylphenyl phosphite* (with TIPA)	75 max. APHA	0.1 max.	1.5265-1.5290	0.980-0.997	Hazy <60°> Clear	4.5	8.2	7900
DOVERPHOS 10 (TPP)	Triphenyl phosphite	50 max. APHA	0.5 max.	1.5880-1.5900	1.180-1.186	Clear Liquid	10.0	9.8	17
DOVERPHOS 213 (DPP)	Diphenyl phosphite	250 max. APHA	15 max.	1.5540-1.5600	1.210-1.230	Clear Liquid	13.3	10.1	12
*maximum residual nonylphenol – 0.1%									
ARYL-ALKYL ORGANO PHOSPHITES									
DOVERPHOS 7 (PDDP)	Phenyl diisodecyl phosphite	50 max. APHA	0.05 max.	1.4780-1.4810	0.938-0.947	Clear Liquid	7.1	7.8	17
DOVERPHOS 8 (DPDP)	Diphenyl isodecyl phosphite	50 max. APHA	0.05 max.	1.5160-1.5190	1.022-1.032	Clear Liquid	8.3	8.6	14
DOVEPRHOS 9-EH	Ethylhexyl Diphenyl phosphite	50 max. APHA	0.10 max.	1.5200-1.5240	1.040-1.047	Clear Liquid	9.0	8.7	9.5
DOVERPHOS 11	Tetraphenyl dipropylene glycol diphosphite	50 max. APHA	0.2 max.	1.5770-1.5620	1.164-1.188	Clear Liquid	10.9	9.8	80
DOVERPHOS 12	Poly (dipropylene glycol) phenyl phosphite	50 max. APHA	0.1 max.	1.5340-1.5380	1.168-1.180	Clear Liquid	12.0	9.8	487
DOVERPHOS 613	Alkyl (C ₁₂ -C ₁₅) bisphenol A phosphite	100 max. APHA	0.1 max.	1.4910-1.4970	0.940-0.985	Clear Liquid	5.4	8.0	230
DOVERPHOS 675	Alkyl (C ₁₀) bisphenol A phosphite	100 max. APHA	0.5 max.	1.4940-1.5090	0.910-0.980	Clear Liquid	6.7	7.9	275
ALKYL ORGANO PHOSPHITES									
DOVERPHOS 6 (TDP)	Triisodecyl phosphite	50 max. APHA	0.1 max.	1.4530-1.4610	0.884-0.904	Clear Liquid	6.2	7.4	15
DOVERPHOS 49 (TTDP)	Tris (tridecyl) phosphite	50 max. APHA	0.1 max.	1.4600-1.4650	0.882-0.900	Clear Liquid	4.9	7.4	41
DOVERPHOS 54 (TLP)	Tris alkyl (C ₁₂ -C ₁₅) phosphite	50 max. APHA	0.1 max.	1.4545-1.4595	0.872-0.832	Clear Liquid	5.3	7.3	20
DOVERPHOS 253	Dioleil hydrogen phosphite	< 3 Gardner	–	1.4640-1.4700	0.880-0.910	Clear Liquid	5.3	7.5	35