

**PETROPLAST  
JALILVAND.CO**



**петрупдосте жалилванд  
компания**

Exclusive Representative of selling shazand

Petrochemical Products in uzbekistan

## TECHNICAL SPECIFICATION

### *Nonyl Phenol Ethoxylate*

<i>Product Name</i>	NPE
<i>Properties</i>	The NPE products are ethoxylated of nonyl phenol (C <sub>6</sub> H <sub>6</sub> [C <sub>6</sub> H <sub>4</sub> ] OH), And all grades have good water/oil (W/O) or O/W emulsifying, wetting, Lubricating and dispersing properties, & as stabilizer in high grad.
<i>Application</i>	The NPE grades can be used in liquid & solid Detergents, liquid dishwashers, window cleaners, in Textile as scouring, Emulsifying, antistatic and lubricating, in Agricultural as emulsifying, In Latex and Waxes as emulsifying, water soluble, in Fats, Oil & Waxes As emulsifying.

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Properties	Test Method	Unit	NPE-2EO	NPE-4EO	NPE-5EO	NPE-6EO	NPE-9EO
Cloud Point	BALLESTRA B-B5	°C	25-30	54-56	63-65	68-69	54-56
PH	ASTM D1172	-	5-7	5-7	5-7	5-7	5-7
Hydroxyl No.	ASTM D 4252	mgKOH/gr	180-190	140-150	127-132	115-120	89-93
Density at 25°C	ASTM D1298	kg/lit	0.99-1.0	1.01-1.03	1.03-1.04	1.03-1.04	1.05-1.06
Viscosity at 25°C	ASTM D445	CST	350-400	235-365	225-255	220-250	225-255
M.W	CALCULATED	kg/kmol	295-312	374-401	425-442	467-488	603-630
HLB	CALCULATED	-	5.6-6.0	8.8-9.4	9.9-10.3	10.8-11.3	12.6-13.1
Water Content	BALLESTRA	wt%	0.5 Max	0.5 Max	0.5 Max	0.5 Max	0.5 Max

Properties	Test Method	Unit	NPE-10EO	NPE-12EO	NPE-15EO	NPE-20EO	NPE-45EO
Cloud Point	BALLESTRA B-B5	°C	64-66	84-86	67-69	73-76	-
PH	ASTM D1172	-	5-7	5-7	5-7	5-7	5-7
Hydroxyl No.	ASTM D 4252	mgKOH/gr	85-89	75-79	62-65	49-52	23-27
Density at 25°C	ASTM D1298	kg/lit	1.05-1.07	1.05-1.06	1.06-1.07	1.06-1.08	-
Viscosity at 25°C	ASTM D445	CST	230-260	105-125	130-150	110-130	Ca. 155
M.W	CALCULATED	kg/kmol	630-660	710-748	863-905	1079-1145	2078-2440
HLB	CALCULATED	-	13.3-14.0	14.1-14.9	14.6-15.3	15.4-16.3	16.2-19.1
Water Content	BALLESTRA	wt%	0.5 Max	0.5 Max	0.5 Max	0.5 Max	-

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