



Arak Petrochemical Company



ISO 9001:2000
Certificate No.: CH98/8032

ISO 14001:2004
Certificate No.: CH03/0112

OHSAS 18001:1999
Certificate No.: CH05/0675

Address:

No. 3, Taban St.
Vali-e-Asr Ave.
Tehran - IRAN

Tel:

(+98 21)82122700

Fax:

(+98 21)8867 4126-27

Web-site:

www.arpc.ir

E-mail:

Sales@arpc-ir.ne

Nonyl Phenol Ethoxylate (NPE)

Characteristic	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 D-1172	-	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@25°C	ASTM D-1298	Kg/lit	0.99-1.0	1.01-1.03	1.03-1.04	1.03-1.04	1.05-1.06
VISCOSITY@25 °C	ASTM D-445	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

Characteristic	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 D-1172	-	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@25°C	ASTM D-1298	Kg/lit	1.05-1.07	1.05-1.06	1.06-1.07	1.06-1.08	-
VISCOSITY@25 °C	ASTM D-445	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	-

CAS Name: poly ethylene glycol isononylphenol ether.

INCI Name: NONOXYNOL-2, NONOXYNOL-4, NONOXYNOL-6,

Nonyl phenol Ethoxylate's is non- ionic surfactants obtained by adding Ethylene oxide (EO) to nonyl phenol.

The nonyl phenol Ethoxylate's designated by the name "NPE" followed by a number of ethylene oxide molecules added.

NPE2, NPE3, NPE4, NPE5 and NPE6 are viscous liquid at room Temperature. NPE9, NPE10 & higher grades are white waxy solid.

Other grades of NPE are available on request.



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Nonyl phenol ethoxylate (NPE)

○ **Applications:**

In Detergents: 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.

○ **Properties:**

The NPE products are ethoxylated of nonyl phenol (C₆H₆ [C₆H₄] OH), And all grades have good water/oil (W/O) or O/W emulsifying, wetting, Lubricating and dispersing properties, & as stabilizer in high grades.

○ **Storage Condition:**

NPE grads are generally not regarded difficulties in handling & Storage; they aren't volatile, on corrosive, stable & high flash point. For the bulk liquid prolonged storage, stainless 403/316 material & tanks under nitrogen blanketing are recommended.

Recommended storage condition: 20-30 C

○ **Packaging:**

Bulk or 220Lit (net.200kg) new drums, each for drums strapped on a pallet.

Shelf Life: 24 Months