

Objective: The chart outlines the basic properties found in standard NEODOL Ethoxylate grades.

## NEODOL Ethoxylates Typical Properties

Product Name	23-1	23-2	23-3	23-6.5	25-1.3	25-3	25-5	25-7	25-9	25-12
Available from	US	EU/US	EU/US	EU/US	US	EU/US	EU	EU/US	US	US
EO/alcohol ratio, mol/mol	1.0	2.0	3.0	6.5	1.25	2.85	5.0	7.0	9.0	12.0
Molecular Weight, g/mol	238	282	326	480	262	332	425	515	604	741
Hydroxyl Number, mg KOH/g	236	199	172	117	214	169	132	109	93	76
HLB No.	3.7	6.5	7.9	11.8	4.3	7.5	10.3	12.2	13.2	14.4
Flash Point, PMCC °C (ASTM D-93) °F	138 280	152 306	160 320	182 360	146 295	163 325	165 329	186 367	188 370	225 437
Pour Point °C (ASTM D-97) °F	5 41	0 32	0 32	15 59	10 50	5 41	16 61	20 68	25 80	29 85
Cloud Point, (1%) °C or ml H <sub>2</sub> O titrated	14	23	36	41	15	31		49	74	
Viscosity, cSt@40 °C	12	14	16	27	14	17	25	32	36	38
Density, kg/l@40 °C	0.862	0.891	0.912	0.966	0.870	0.908	0.949	0.972	0.985	1.006

Contact us: Our website [www.shell.com/chemicals/NEODOL](http://www.shell.com/chemicals/NEODOL) is always open and provides technical data as well as telephone numbers to our international customer care centres.

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