



O P T I M A L

**OPTIMAL CHEMICALS (M) SDN. BHD.**  
*A Joint-Venture Between PETRONAS & The Dow Chemical Company*

**Technical Data Sheet**

**ALCOHOL ETHOXYLATE**

**Date:** 4th March 2009

Typical Physical Properties	Product			
	Tergitol 26-L-3	Tergitol 26-L-5	Tergitol 26-L-7	Tergitol 26-L-9
Actives, wt%	100	100	100	100
Appearance at 25 deg C	Clear to Slightly Hazy Liquid	Clear to Slightly Hazy Liquid	Hazy Liquid	White Paste
Cloud Point (1wt% aq solution), deg C	N/A	N/A	57	79
HLB	8	11	12	13
Moles EO	3	5	7	9
Critical Micelle Concentration (CMC) at 25 deg C, ppm	N/A	N/A	16	25
Surface Tension at 25 deg C (1wt% aq solution), mN/m	N/A	N/A	29	29
Hydroxyl Number, mgKOH/g	172-180	130-138	112	98
Pour Point, deg C	5	11	17	N/A
pH (1wt% 10/6 IPA/Water Solution)	6.0-7.5	6.0-7.5	N/A	N/A
pH (1wt% aq solution)	N/A	N/A	7.0	7.0
Specific Gravity at 20 deg C (68 deg F)	0.92 by calculation	0.96 by calculation	1.0	1.0
Flash Pt, Closed Cup, ASTM D93	>150 deg C calculated	>176 deg C calculated	>204 deg C (399 deg F)	>204 deg C (399 deg F)
Solubility and Compatibility	*	*	+	+

- \* Insoluble in water  
Soluble in chlorinated solvents and most polar organic solvents  
Chemically stable in the presence of dilute acids, bases and salts  
Compatible with anionic, cationic and other nonionic surfactants

- + Soluble in water  
Soluble in chlorinated solvents and most polar organic solvents  
Chemically stable in the presence of dilute acids, bases and salts  
Compatible with anionic, cationic and other nonionic surfactants