



CERTIFICATE OF ANALYSIS

PRODUCT : NONYL PHENOL ETHOXYLATE 9 (NP + 9EO)
SOURCE : F - 604 A
DATE : AUGUST 13TH, 2015

No.	COMPONENT	METHOD	UNIT	SPECIFICATION	RESULT
1	APPEARANCE (25°C)	VISUAL	-	CLEAR LIQUID	CLEAR LIQUID
2	COLOR, Pt-Co (40°C)	SA 009 (SD)	APHA	MAX 50	15
3	HYDROXYL VALUE	SA 032 (SD)	MG KOH/G	88 ~ 96	90.89
4	pH 1 WT % AQ SOLN. (25°C)	SA 054 (SD)	-	5.5 ~ 7.5	6.83
5	WATER CONTENT	SA 003 (SD)	WT %	MAX 0.3	0.0277
6	POLYETHYLENE GLYCOLS.	SA 056 (SD)	WT %	MAX 2	< 2
7	CLOUD POINT*	SA 055 (SD)	°C	50 ~ 56	52.6

SD : Scientific Design Method

* CP : 1 WT % IN AQUA SOLUTION.

ORIGINAL

APPROVED BY,



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