

THE CHEMICAL BROTHERS GROUP

Specifications: Polyethylene Glycol

CAS Number 25322-68-3

Formula H(OCH₂ CH₂)_nOH

Date of Mfg.: 3rd April 2024

Test	Specification	Min	Max
ASSAY (ANHYDROUS BASIS)		97.0 %	103.0 %
APPARENT WEIGHT-AVERAGE MOLECULAR WEIGHT		3015	3685
POLYDISPERSITY		1.00	1.16
HYDROXYL VALUE		30	38
ACIDITY AND ALKALINITY, pH		4.5	7.5
RESIDUE ON IGNITION			0.1 %
ETHYLENE GLYCOL			0.062 %
SUM OF ETHYLENE & DIETHYLENE GLYCOL			0.2 %
FORMALDEHYDE			15 µg/g
SUM OF FORMALDEHYDE & ACETALDEHYDE			200 µg/g
FREE ETHYLENE OXIDE			1 µg/g
FREE 1,4-DIOXANE			10 µg/g
ELEMENTAL IMPURITIES: NICKEL (Ni)			AS REPORTED
ELEMENTAL IMPURITIES: CHROMIUM (Cr)			AS REPORTED
WATER DETERMINATION			1.0 %
IDENTIFICATION A (IR 197A)	TCBG MATCHES REFERENCE		
IDENTIFICATION B (HPLC)	RETENTION TIME CORRESPONDS TO STANDARD		
RESIDUAL SOLVENTS			AS REPORTED

End of Report*