

2-Phenoxyethanol

Meets USP-NF, EP, BP and IP testing specifications

Product Code: TC549M

Product Description :

Molecular weight : 138.16
Molecular formula: C₈H₁₀O₂
CAS No.: 122-99-6

Quality Control:

Appearance (USP, EP, BP, IP)

Colourless, slightly viscous liquid

Solubility (USP)

Slightly soluble in water, in peanut oil and in olive oil, miscible with acetone, with alcohol and with glycerol.

Solubility (IP)

Miscible with acetone, with ethanol (95%) and with glycerol. Slightly soluble in water, in arachis oil and in olive oil.

Solubility (EP, BP)

Slightly soluble in water, in arachis oil and in olive oil, miscible with acetone, with ethanol (96%) and with glycerol.

Identification A : FTIR (USP, IP)

Matches with the standard pattern

Identification A : Refractive index (EP, BP)

1.537 - 1.539

Identification B : Specific absorbance (EP, BP)

95 - 105 (80 ppm in water at 269 nm, spectral range : 240 - 350 nm)

75 - 85 (80 ppm in water at 275 nm, spectral range : 240 - 350 nm)

Identification C : FTIR (EP, BP)

Matches with the standard pattern

Identification D : Melting range (EP, BP)

96 - 99°C

Relative density (EP, BP, IP)

1.105 - 1.110

Specific absorbance 1 : (EP, BP, IP)

95.00 - 105.00 (80 ppm in water at 269 nm, spectral range : 240 - 350 nm)

Specific absorbance 2 : (EP, BP, IP)

75.00 - 85.00 (80 ppm in water at 275 nm, spectral range : 240 - 350 nm)

System suitability : GC : resolution (USP)

>= 10.0, between the phenol and phenoxyethanol peaks

System suitability : GC : Relative standard deviation (USP)

<= 2.0%

Organic impurities : GC (USP)

<= 1.00%

Related substances : system suitability : resolution : GC (EP, BP)

>= 15.0 between the peaks due to impurity A and phenoxyethanol

Related substances; unspecified impurities, for each impurity : GC (EP, BP)

<= 0.10%

Related substances : Total impurities : GC (EP, BP)

<= 0.3%

Related substances, system suitability : resolution, GC (IP)

>= 12.0, between the peaks due to phenoxyethanol and methyl laurate

Related substances, Total impurities : GC (IP)

<= 1.00%

Specific gravity (USP)

1.105 - 1.110 (at 20°C)

Refractive index (n_{20/D}) : (IP)

1.5370 - 1.5390

Limit of phenol : GC (USP)

<= 0.10%

Limit of phenol : UV (IP)

<= 0.10%

Assay (GC) : (USP)

98.00 - 102.00%

Assay (NaOH Titration) : (EP, BP, IP)

99.00 - 100.50%

Storage and Shelf Life:

Store below 30°C away from bright light.

Shelf life is 48 months.

Use before expiry date given on the product label.

Revision : 04/2023

Disclaimer :

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