

SPECIFICATION

Hexane

for the Japanese Pharmacopoeia General Tests (for LC)

REQUIREMENT	SPECIFICATION
Description (JP)	Clear, colorless liquid
Absorbance (210nm) (JP)	not more than 0.3
Absorbance (250~400nm) (JP)	not more than 0.01
Peroxide (JP)	not more than 0.0005%
* Density (20°C)	0.658~0.662g/mL
* Refractive index 20°C	1.374~1.376
* Absorbance (210nm)	max.0.25
* Absorbance (220nm)	max.0.08
* Absorbance (230nm)	max.0.04
* Absorbance (240nm)	max.0.02
* Absorbance (254~400nm)	max.0.01
* Peroxides (as H ₂ O ₂)	max.5ppm
* Fluorescence test	to pass test
Description (USP-NF)	Colorless liquid
Assay (USP-NF)	minimum 98.5%
Color (APHA) (USP-NF)	maximum 10
Residue after evaporation (USP-NF)	maximum 0.001%
Water-soluble titrable acid (USP-NF)	maximum 0.0003meq/g
Sulfur compounds (as S) (USP-NF)	maximum 0.005%
Thiophene (USP-NF)	passes test
Absorbance (280~400nm) (USP-NF)	maximum 0.01
Absorbance (250nm) (USP-NF)	maximum 0.02
Absorbance (240nm) (USP-NF)	maximum 0.04
Absorbance (230nm) (USP-NF)	maximum 0.10
Absorbance (220nm) (USP-NF)	maximum 0.20
Absorbance (210nm) (USP-NF)	maximum 0.30
Absorbance (195nm) (USP-NF)	maximum 1.0
Description (Ph.Eur.)	Colorless liquid
Sp. Gr.(20/20°C) (Ph.Eur.)	0.659~0.663

Refractive index 20°C (Ph.Eur.)	1.375~1.376
Distillation range (67~69°C) (Ph.Eur.)	minimum 95%
Absorbance (260~420nm) (Ph.Eur.)	maximum 0.01
* Appearance	Colorless clear liquid
Assay [CH ₃ (CH ₂) ₄ CH ₃](GC)	min.96.0%(mass/mass)
** Water	max.0.01%(mass/mass)
Residue after evaporation	max.0.001%(mass/mass)
Acidity (as CH ₃ COOH)	max.0.002%(mass/mass)
Fat	to pass test
Thiophene group	to pass test
Substances darkened by sulfuric acid	to pass test
Sulfide and reducing substances	to pass test

This product is suited for Hexane for liquid chromatography of general tests on The Japanese Pharmacopoeia. (*:Additional test performed by Wako)JSP-NF Reagent Hexanes and Hexane, Solvent, ChromatographicPh. Eur. Reagent HexaneJIS K 8848:2012 (**:The specification is originally set by Wako)