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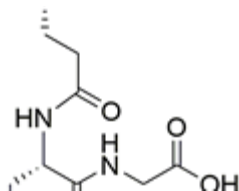
Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

Product Specifications



Catalogue Number	41767
Product	Glutathione reduced form γ -L-Glutamyl-L-cysteinylglycine
CAS Number	70-18-8
Molecular Formula	C ₁₀ H ₁₇ N ₃ O ₆ S
Molecular Weight	307.33

Appearance	White or almost white crystalline powder or colorless crystals
Appearance of Solution	Clear and colorless solution
Solubility	Freely soluble in water, very slightly soluble in ethanol and in methylene chloride
Heavy Metals	≤ 10 ppm
Anion	Chlorides : ≤ 200 ppm Sulphates : ≤ 300 ppm
Cation	Ammonium : ≤ 200 ppm Iron : ≤ 10 ppm Arsenic (As) : ≤ 1 ppm Cadmium (Cd) : ≤ 1 ppm Lead (Pb) : ≤ 3 ppm Mercury (Hg) : ≤ 0.1 ppm
Optical Rotation	[α] _D ²⁰ = -15.5 to -17.5 °
Infrared Spectrum	Conforms to structure
Loss on Drying	≤ 0.5%
Bacterial Endotoxins	≤ 0.10 EU/mg
Related Substances	Any other unknown impurity : ≤ 0.2% Total unknown impurity : ≤ 0.3% Total impurities : ≤ 2.5%
Sulfated Ash	≤ 0.1%
Assay	≥ 99%
Grade	meets EP specifications
Storage	Store at 0 - 8 °C

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Additional Information	Impurity A (L-cysteinylglycine) : $\leq 0.5\%$
	Impurity B (Cysteine) : $\leq 0.5\%$
	Impurity C (L-glutathione oxidised) : $\leq 1.5\%$
	Impurity D(L- γ -glutamyl-L-cysteine) : $\leq 1\%$
	Impurity E (Product of degradation) : $\leq 0.5\%$

For Laboratory Use Only