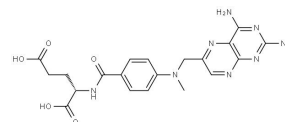


Technical Data Sheet

Methotrexate

Compound Information

Product Name:	Methotrexate
CAS No.:	59-05-2
Molecular Formula:	C ₂₀ H ₂₂ N ₈ O ₅
Molecular Weight:	454.44
Storage:	Store at RT
Revision Date:	2026-04-15



Analytical Information

Tests	Specifications
IUPAC Name	N-[4-[[[(2,4-Diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-glutamic acid
Appearance	Yellow solid
Solubility	H ₂ O: insoluble
HPLC	Shows 98.8% purity
Optical Rotation	[α] _D = +20.6 (Concentration = 1, Solvent = 0.05M Sodium Carbonate)
MS	Pass test
1H NMR	Pass test
13C NMR	Pass test
IR	Pass test

Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.