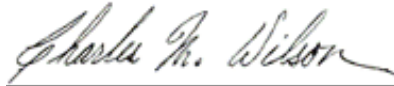


EM SCIENCE

CERTIFICATE OF ANALYSIS

NAME: Petroleum Ether
GR ACS
ITEM NUMBER: PX0425
LOT NUMBER: 33288
FORMULA: Mixture
FORMULA WT: Meets ACS Specifications
Data Order No: 00060216

PROPERTY	LIMITS		RESULTS	UNITS
	Min.	Max.		
Acidity			Passes test	
Boiling range	35	60	38.4	°C
Color (APHA)		10	<10	
Form			Clear liquid	
Residue after evaporation		0.001	<0.0001	%



Charles M. Wilson,
Quality Assurance Manager
Analysis Date: 10/18/93

EM SCIENCE, An Affiliate of Merck KGaA, Darmstadt, Germany