

Method 8095 (Explosives by GC) *cont'd*

Single-Component Explosives Solutions

Volume is 1mL/ampul. Concentration is µg/mL.

Compound	Solvent	Conc.	cat.# (ea.)	price
2-amino-4,6-dinitrotoluene	ACN	1,000	31670	
4-amino-2,6-dinitrotoluene	ACN	1,000	31671	
ammonium picrate*	ACN	2,000	31890	
3,5-dinitroaniline	ACN	1,000	31661	
1,2-dinitrobenzene	M	1,000	31453	
1,3-dinitrobenzene	ACN	1,000	31662	
2,4-dinitrotoluene	ACN	1,000	31663	
2,6-dinitrotoluene	ACN	1,000	31664	
3,4-dinitrotoluene	EA	2,000	33901	
3,4-dinitrotoluene	M	1,000	31452	
EGDN*	M	1,000	31601	
HMX*	ACN	1,000	31665	
2-methyl-4-nitroaniline	M	1,000	31612	
nitrobenzene	ACN	1,000	31657	
nitroglycerin*	M	1,000	31498	
nitroguanidine*	M	1,000	31602	
2-nitrotoluene	ACN	1,000	31659	
3-nitrotoluene	ACN	1,000	31660	
4-nitrotoluene	ACN	1,000	31658	
PETN (pentaerythritol tetranitrate)*	M	1,000	31600	
picric acid*	M	1,000	31499	
propylene glycol dinitrate (PGDN)	M	1,000	31821	
RDX*	ACN	1,000	31666	
tetryl*	ACN	1,000	31667	
1,3,5-trinitrobenzene*	ACN	1,000	31668	
2,4,6-trinitrotoluene*	ACN	1,000	31669	

ACN = acetonitrile; EA = ethyl acetate; M = methanol

*Meet all DOT requirements. Available only to customers or distributors inside the 48 contiguous United States; items may not be resold for export.

Method 8100 (Polycyclic Aromatic Hydrocarbons)

PAH Supplement Mix for Method 8100 (8 components)

benzo(j)fluoranthene	dibenzo(a,e)pyrene
dibenzo(a,h)acridine	dibenzo(a,h)pyrene
dibenzo(a,i)acridine	dibenzo(a,i)pyrene
7H-dibenzo(c,g)carbazole	3-methylcholanthrene

1,000µg/mL each in methylene chloride, 1mL/ampul
cat. # 31857 (ea.)

SV Calibration Mix #5 / 610 PAH Mix (16 components)

acenaphthene	chrysene
acenaphthylene	dibenzo(a,h)anthracene
anthracene	fluoranthene
benzo(a)anthracene	fluorene
benzo(a)pyrene	indeno(1,2,3-cd)pyrene
benzo(b)fluoranthene	naphthalene
benzo(k)fluoranthene	phenanthrene
benzo(ghi)perylene	pyrene

2,000µg/mL each in methylene chloride, 1mL/ampul
cat. # 31011 (ea.)



also available

Our 30 m, 0.32 mm ID, 0.50 µm Rtx®-OPPesticides column provides fast analyses, low bleed, and better resolution than alternative choices.

See **page 91** for details.

Methods 8140, 8141 (Organophosphorus Pesticides)

The preparation of accurate and stable OP standards is complicated by their sensitivity to light, pH, heat, and water. Restek has spent more than four years researching OP pesticide mixtures. Our research results:

- OP standards have a maximum of 12 months shelf life due to their volatility. It is our policy to ship standards with no less than 3 months shelf life remaining.
- Solvents are assayed to ensure low water content.
- Reference mixtures are stored in deactivated amber ampules, under an inert atmosphere.
- Purity is determined by a combination of methods: GC/FID, GC/FPD, GC/NPD, DSC, and HPLC/UV.

8140/8141 Internal Standards & Surrogates

NPD Detector:

Internal Standard: 1-bromo-2-nitrobenzene (cat.# 32279)
Surrogate: 4-chloro-3-nitrobenzotrifluoride (cat.# 32282)

1,000µg/mL in acetone, 1mL/ampul	cat. # 32279 (ea.)
1,000µg/mL in acetone, 1mL/ampul	cat. # 32282 (ea.)

FPD Detector:

Internal Standard: none recommended
Surrogate: tributylphosphate (cat.# 32280) and triphenylphosphate (cat.# 32281)

1,000µg/mL in acetone, 1mL/ampul	cat. # 32280 (ea.)
1,000µg/mL in acetone, 1mL/ampul	cat. # 32281 (ea.)

8140/8141 OP Pesticide Calibration Mix A (20 components)

aziphos methyl	fenthion
bolstar (sulprofos)	merphos
chlorpyrifos	methyl parathion
coumaphos	mevinphos
demeton, O & S	naled
diazinon	phorate
dichlorvos	ronnel
disulfoton	stirofos
ethoprop	tokuthion (prothiofos)
fensulfthion	trichloronate

200µg/mL each in hexane:acetone (95:5), 1mL/ampul
cat. # 32277 (ea.)

8141 OP Pesticide Calibration Mix B (7 components)

dimethoate	parathion
EPN	sulfotepp
malathion	TEPP
monocrotophos	

200µg/mL each in hexane:acetone (95:5), 1mL/ampul
cat. # 32278 (ea.)

also available

Additional nitrogen/phosphorus pesticide mixes are listed on **page 458**.