

Blood Alcohols, Bank Dye, Explosives

Blood Alcohol Standards

We have developed calibration mixtures for performing multi-point instrument calibrations so that laboratories can construct calibration curves. The data pack (which can be downloaded from our website at www.restek.com/documents) includes a Certificate of Analysis, raw material testing results, statistical QA results, analytical balance printout, and gravimetric weight of each analyte. Ethanol in these mixes is National Institute of Standards and Technology (NIST)-traceable.

Compound	qty.	cat.#	price
0.010g/dL forensic ethanol solution			
1mL/ampul	5-pk.	36276	
1mL/ampul	10-pk.	36278	
5mL/ampul	ea.	36277	
0.015g/dL forensic ethanol solution			
1mL/ampul	5-pk.	36232	
1mL/ampul	10-pk.	36332	
20mL/ampul	ea.	36248	
0.02g/dL forensic ethanol solution			
1mL/ampul	5-pk.	36233	
1mL/ampul	10-pk.	36333	
20mL/ampul	ea.	36249	
0.025g/dL forensic ethanol solution			
1mL/ampul	5-pk.	36234	
1mL/ampul	10-pk.	36334	
5mL/ampul	ea.	36242	
0.04g/dL forensic ethanol solution			
1mL/ampul	5-pk.	36235	
1mL/ampul	10-pk.	36335	
5mL/ampul	ea.	36243	
20mL/ampul	ea.	36251	
0.05g/dL forensic ethanol solution			
1mL/ampul	5-pk.	36257	
1mL/ampul	10-pk.	36259	
5mL/ampul	ea.	36258	
20mL/ampul	ea.	36260	
0.08g/dL forensic ethanol solution			
1mL/ampul	5-pk.	36262	
1mL/ampul	10-pk.	36264	
5mL/ampul	ea.	36263	
20mL/ampul	ea.	36265	
0.1g/dL forensic ethanol solution			
1mL/ampul	5-pk.	36236	
1mL/ampul	10-pk.	36336	
5mL/ampul	ea.	36244	
20mL/ampul	ea.	36252	
0.15g/dL forensic ethanol solution			
1mL/ampul	5-pk.	36237	
1mL/ampul	10-pk.	36337	
5mL/ampul	ea.	36245	
20mL/ampul	ea.	36253	
0.16g/dL forensic ethanol solution			
1mL/ampul	5-pk.	36417	
1mL/ampul	10-pk.	36418	
5mL/ampul	ea.	36419	
20mL/ampul	ea.	36420	
0.2g/dL forensic ethanol solution			
1mL/ampul	5-pk.	36238	
1mL/ampul	10-pk.	36338	
5mL/ampul	ea.	36246	
20mL/ampul	ea.	36254	
0.3g/dL forensic ethanol solution			
1mL/ampul	5-pk.	36239	
1mL/ampul	10-pk.	36339	
5mL/ampul	ea.	36247	
20mL/ampul	ea.	36255	
0.4g/dL forensic ethanol solution			
1mL/ampul	5-pk.	36266	
1mL/ampul	10-pk.	36268	
5mL/ampul	ea.	36267	
20mL/ampul	ea.	36269	

Blood Alcohol Standards cont'd

Blood Alcohol Mix Resolution Control Standard (8 components)

Use to verify the retention time for each compound normally included in a blood alcohol test, and to verify that the compounds are resolved from and do not interfere with one another. Concentration of ethanol is NIST-traceable.

acetaldehyde	ethyl acetate
acetone	isopropanol
acetonitrile	methanol
ethanol (NIST certified value)	methyl ethyl ketone
0.100g/dL each in water, 1mL/ampul	
cat. # 36256 (ea.)	

Bank Dye Standard (MAAQ)

Restek offers this qualitative standard (red dye used in bank "Security Pack") to help investigators in municipal police stations and criminal laboratories fight crime.

1-N-(methylamino)anthraquinone (MAAQ)

100µg/mL in methylene chloride, 1mL/ampul
cat. # 31823 (ea.)

No data pack available.

Explosives Solutions

Single-Component Explosives Solutions

These materials support nitroaromatic, nitramine, and nitroester analyses by GC/ECD (Method 8095).^{1,2} Compounds listed are explosives, manufacturing intermediates, or degradation products. Method 8095 mixtures contain the components at concentration ratios appropriate for ECD.

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.

References (Not available from Restek.)

¹US Environmental Protection Agency. *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*. SW-846, Proposed Draft Update IVB, Office of Solid Waste, Washington, DC, 1999.

²M. E. Walsh, T. Ranney, J. Chromatogr. Sci., Vol. 36, pp. 406-416, August 1998.

did you know?

Resolve blood alcohol samples in less than 3 minutes with our Rtx®-BAC1 and Rtx®-BAC2 columns. Visit www.restek.com/CFT for more information on these columns or to find out what's new for clinical/forensic analyses.