

ASTM Method D6730-01 (Determination of Individual Components in Spark Ignition Engine Fuels) *cont'd*

DHA PONA VI Mix

PONA-VI (PONA 6) is a qualitative mixture of various gasoline and refinery materials prepared to provide nearly every component that may be encountered in feedstock and finished gasolines. Some oxygenates have been added to allow this blend to be used for DHA method setup.

Contact us for component listing.

Neat, 0.1mL in Autosampler Vial

cat. # 30723 (ea.)



Neat, 0.1mL in Vial with Mininert Valve

cat. # 30724 (ea.)

No data pack available.

Quantity discounts not available.

PIANO Standards

The PIANO blends are standards used for calibrating complex hydrocarbon analyses and provide the greatest number of gravimetrically determined values for quantitative calibration.

DHA PIANO Blend (136 components)

Contact us for component listing.

Neat, 0.1mL in Autosampler Vial

cat. # 30712 (ea.)



Neat, 0.1mL in Vial with Mininert Valve

cat. # 30709 (ea.)

No data pack available.

Quantity discounts not available.

DHA Paraffins Mix (11 components)

decane	9.11%	pentadecane	9.09%
dodecane	9.13%	pentane	9.06%
heptane	9.08%	tetradecane	9.14%
hexane	9.11%	tridecane	9.05%
nonane	9.08%	undecane	9.05%
octane	9.10%		

Neat, 0.1mL in Autosampler Vial

cat. # 30713 (ea.)



Neat, 0.1mL in Vial with Mininert Valve

cat. # 30714 (ea.)

No data pack available.

Quantity discounts not available.

DHA Isoparaffins Mix (34 components)

3,3-diethylpentane	1.87%	3-ethylhexane	0.29%
2,3-dimethylbutane	2.27%	3-ethyloctane	1.04%
2,3-dimethylheptane	1.12%	3-ethylpentane	0.85%
2,5-dimethylheptane	3.64%	isopentane	1.53%
3,3-dimethylheptane	1.71%	3-methylcycloheptane	5.73%
3,4-dimethylheptane	0.80%	4-methylcycloheptane	1.41%
3,5-dimethylheptane	2.27%	2-methylheptane	4.54%
2,2-dimethylhexane	0.76%	2-methylhexane	4.54%
2,3-dimethylhexane	3.29%	3-methylhexane	2.28%
2,4-dimethylhexane	1.40%	2-methylnonane	1.53%
2,5-dimethylhexane	5.69%	3-methylnonane	5.10%
2,2-dimethyloctane	2.05%	2-methyloctane	1.20%
3,3-dimethylheptane	0.78%	3-methyloctane	6.81%
2,2-dimethylpentane	2.36%	2-methylpentane	6.17%
2,3-dimethylpentane	4.54%	3-methylpentane	10.23%
2,4-dimethylpentane	5.77%	2,2,3-trimethylbutane	0.64%
3,3-dimethylpentane	2.23%	2,2,3-trimethylpentane	3.56%

Neat, 0.1mL in Autosampler Vial

cat. # 30715 (ea.)



Neat, 0.1mL in Vial with Mininert Valve

cat. # 30716 (ea.)

No data pack available.

Quantity discounts not available.

DHA Aromatics Mix (38 components)

benzene	8.20%	isopropylbenzene	2.07%
<i>n</i> -butylbenzene	2.06%	2-methylbutylbenzene	0.11%
<i>sec</i> -butylbenzene	3.07%	1-methyl-2-isopropylbenzene	2.76%
<i>tert</i> -butylbenzene	2.04%	1-methyl-3-isopropylbenzene	1.05%
<i>tert</i> -1-butyl-3,5-dimethylbenzene	3.31%	1-methyl-4-isopropylbenzene	4.09%
1- <i>tert</i> -butyl-4-ethylbenzene	2.05%	1-methyl-2- <i>n</i> -propylbenzene	2.13%
1- <i>tert</i> -butyl-2-methylbenzene	2.05%	1-methyl-3- <i>n</i> -propylbenzene	2.06%
1,2-diethylbenzene	0.84%	1-methyl-4- <i>n</i> -propylbenzene	2.06%
1,2-dimethyl-3-ethylbenzene	2.13%	pentylbenzene	2.05%
1,2-dimethyl-4-ethylbenzene	0.90%	<i>n</i> -propylbenzene	3.07%
1,3-dimethyl-2-ethylbenzene	0.79%	1,2,4,5-tetramethylbenzene	0.85%
1,3-dimethyl-5-ethylbenzene	0.39%	toluene	12.36%
1,4-dimethyl-2-ethylbenzene	2.05%	1,2,4-triethylbenzene	1.02%
ethylbenzene	8.18%	1,3,5-triethylbenzene	2.04%
1-ethyl-2-methylbenzene	1.55%	1,2,4-trimethylbenzene	2.05%
1-ethyl-3-methylbenzene	2.77%	1,3,5-trimethylbenzene	0.41%
1-ethyl-4-methylbenzene	2.05%	<i>m</i> -xylene	3.08%
hexylbenzene	5.11%	<i>p</i> -xylene	1.03%
isobutylbenzene	3.08%	<i>o</i> -xylene	3.10%

Neat, 0.1mL in Autosampler Vial

cat. # 30717 (ea.)



Neat, 0.1mL in Vial with Mininert Valve

cat. # 30718 (ea.)

No data pack available.

Quantity discounts not available.

DHA Naphthenes Mix (27 components)

ctc-123-TMCCYC6	3.40%	methylcyclohexane	3.39%
cyclohexane	4.41%	methylcyclopentane	5.48%
cyclopentane	8.75%	<i>trans</i> -1-methyl-2-(4MP)cyclopentane	3.31%
<i>cis</i> -1,2-dimethylcyclohexane	7.74%	<i>trans</i> -1-methyl-2-propylcyclohexane	4.43%
<i>trans</i> -1,2-dimethylcyclohexane	3.29%	<i>n</i> -propylcyclopentane	4.06%
<i>trans</i> -1,4-dimethylcyclohexane	4.38%	1,1,2-trimethylcyclohexane	1.69%
<i>trans</i> -1,2-dimethylcyclopentane	3.37%	1,1,4-trimethylcyclohexane	5.83%
<i>cis</i> -1,3-dimethylcyclopentane	3.39%	ctc-1,2,4-trimethylcyclohexane	0.98%
<i>trans</i> -1,3-dimethylcyclopentane	5.36%	ctt-1,2,4-trimethylcyclohexane	1.70%
ethylcyclopentane	7.25%	ccc-1,3,5-trimethylcyclohexane	2.16%
1-ethyl-1-methylcyclopentane	1.35%	ccc-1,2,3-trimethylcyclopentane	0.73%
isobutylcyclohexane	3.28%	ctc-1,2,3-trimethylcyclopentane	3.48%
isobutylcyclopentane	1.23%		
isopropylcyclohexane	4.37%		
isopropylcyclopentane	1.20%		

Neat, 0.1mL in Autosampler Vial

cat. # 30719 (ea.)



Neat, 0.1mL in Vial with Mininert Valve

cat. # 30720 (ea.)

No data pack available.

Quantity discounts not available.

DHA Olefins Mix (26 components)

1-decene	2.27%	2-methyl-2-pentene	3.43%
1-heptene	6.81%	4-methyl-1-pentene	3.41%
<i>cis</i> -2-heptene	3.42%	1-nonene	6.94%
<i>trans</i> -2-heptene	0.52%	<i>trans</i> -2-nonene	2.29%
<i>cis</i> -3-heptene	3.41%	<i>cis</i> -3-nonene	3.02%
<i>trans</i> -3-heptene	1.37%	<i>trans</i> -3-nonene	2.29%
1-hexene	11.30%	<i>cis</i> -4-nonene	4.38%
<i>cis</i> -2-hexene	2.30%	1-octene	11.37%
<i>trans</i> -2-hexene	2.26%	<i>cis</i> -2-octene	2.32%
2-methyl-1,3-butadiene	3.69%	<i>trans</i> -2-octene	3.42%
2-methyl-1-butene	2.18%	1-pentene	8.76%
3-methyl-1-butene	1.48%	<i>cis</i> -2-pentene	2.01%
2-methyl-1-nonene	3.42%	<i>trans</i> -2-pentene	1.94%

Neat, 0.1mL in Autosampler Vial

cat. # 30721 (ea.)



Neat, 0.1mL in Vial with Mininert Valve

cat. # 30722 (ea.)

No data pack available.

Quantity discounts not available.

also available

Rtx®-DHA Columns. See page 75.



www.restek.com 517