

## Naphta



## Petrochemistry Standards

# Reagents and Standards for Naphthas



## ASTM D6045 Standard Test Method for Color of Petroleum Products by the Automatic Tristimulus Method

### ASTM Colour Standards

Product No.	Description	Colour	ASTM Methods to include the following	Pack Size
ASTMA101	ASTM Colour Standard Sample A1	1	D6045	100ml
ASTMA105	ASTM Colour Standard Sample A1	1	D6045	500ml
ASTMA301	ASTM Colour Standard Sample A3	3	D6045	100ml
ASTMA305	ASTM Colour Standard Sample A4	3	D6045	500ml
ASTMA501	ASTM Colour Standard Sample A5	5	D6045	100ml
ASTMA505	ASTM Colour Standard Sample A5	5	D6045	500ml
ASTMA701	ASTM Colour Standard Sample A7	7	D6045	100ml
ASTMA705	ASTM Colour Standard Sample A7	7	D6045	500ml

### Saybolt Colour Standards

Product No.	Description	Colour	ASTM Methods to include the following	Pack Size
SAYP301	Saybolt Colour +30	S+30	D6045	100ml
SAYP305	Saybolt Colour +30	S+30	D6045	500ml
SAYP251	Saybolt Colour +25	S+25	D6045	100ml
SAYP255	Saybolt Colour +25	S+25	D6045	500ml
SAYP191	Saybolt Colour +19	S+19	D6045	100ml
SAYP195	Saybolt Colour +19	S+19	D6045	500ml
SAYP151	Saybolt Colour +15	S+15	D6045	100ml
SAYP155	Saybolt Colour +15	S+15	D6045	500ml
SAYP121	Saybolt Colour +12	S+12	D6045	100ml
SAYP125	Saybolt Colour +12	S+12	D6045	500ml
SAYP01	Saybolt Colour +0	S0	D6045	100ml
SAYP05	Saybolt Colour +0	S0	D6045	500ml
SAYN151	Saybolt Colour -15	S-15	D6045	100ml
SAYN155	Saybolt Colour -15	S-15	D6045	500ml

## ASTM D1500 Standard Test Method for ASTM Color of Petroleum Products (ASTM Color Scale)

### ASTM Colour Standards

Product No.	Description	Colour	ASTM Methods to include the following	Pack Size
ASTMA101	ASTM Colour Standard Sample A1	1	D1500	100ml
ASTMA105	ASTM Colour Standard Sample A1	1	D1500	500ml
ASTMA301	ASTM Colour Standard Sample A3	3	D1500	100ml
ASTMA305	ASTM Colour Standard Sample A4	3	D1500	500ml
ASTMA501	ASTM Colour Standard Sample A5	5	D1500	100ml
ASTMA505	ASTM Colour Standard Sample A5	5	D1500	500ml
ASTMA701	ASTM Colour Standard Sample A7	7	D1500	100ml
ASTMA705	ASTM Colour Standard Sample A7	7	D1500	500ml

## ASTM D1209 Standard Test Method for Color of Clear Liquids (Platinum-Cobalt Scale)

### Platinum-Cobalt Colour Standards\* (Hazen)

Product No.	Description	Colour	ASTM Methods to include the following	Pack Size
HAZ0	Platinum-Cobalt Colour 0	0	D1209	1000ml
HAZ5	Platinum-Cobalt Colour 5	5	D1209	1000ml
HAZ10	Platinum-Cobalt Colour 10	10	D1209	1000ml
HAZ25	Platinum-Cobalt Colour 25	25	D1209	1000ml
HAZ40	Platinum-Cobalt Colour 40	40	D1209	1000ml
HAZ50	Platinum-Cobalt Colour 50	50	D1209	1000ml
HAZ80	Platinum-Cobalt Colour 80	80	D1209	1000ml
HAZ100	Platinum-Cobalt Colour 100	100	D1209	1000ml
HAZ250	Platinum-Cobalt Colour 250	250	D1209	1000ml
HAZ500	Platinum-Cobalt Colour 500	500	D1209	1000ml

## ASTM D6166 Standard Test Method for Color of Pine Chemicals and Related Products (Instrumental Determination of Gardner Color)

### Gardner Colour Standards\*\*

Product No.	Description	Colour	ASTM Methods to include the following	Pack Size
GARD02	Gardner Colour 2	2	D6166	500ml
GARD021	Gardner Colour 2	2	D6166	100ml
GARD04	Gardner Colour 4	4	D6166	500ml
GARD041	Gardner Colour 4	4	D6166	100ml
GARD06	Gardner Colour 6	6	D6166	500ml
GARD061	Gardner Colour 6	6	D6166	100ml
GARD08	Gardner Colour 8	8	D6166	500ml
GARD081	Gardner Colour 8	8	D6166	100ml
GARD10	Gardner Colour 10	10	D6166	500ml
GARD101	Gardner Colour 10	10	D6166	100ml
GARD12	Gardner Colour 12	12	D6166	500ml
GARD121	Gardner Colour 12	12	D6166	100ml
GARD14	Gardner Colour 14	14	D6166	500ml
GARD141	Gardner Colour 14	14	D6166	100ml
GARD16	Gardner Colour 16	16	D6166	500ml
GARD161	Gardner Colour 16	16	D6166	100ml

## ASTM D2162 Standard Practice for Basic Calibration of Master Viscometers and Viscosity Oil Standards

Product No.	20°C	25°C	37.78°C	40°C	50°C
REVIS-N.4	0.47	0.45	0.41	0.40	
REVIS-N.8	0.74	0.70	0.61	0.60	
REVIS-N1.0	1.3	1.2	1.0	0.97	0.87
REVIS-N2	2.9	2.6	2.1	2.0	1.7
REVIS-S3	4.4	3.9	3.0	2.9	2.4
REVIS-N4	6.7	5.8	4.2	4.0	3.2
REVIS-S6	10	8.7	6.0	5.7	4.4
REVIS-N7.5	14	12	8.0	7.5	5.8
REVIS-N10	20	16	11	10	7.5
REVIS-N14	30	24	15	14	10
REVIS-S20	43	34	20	18	13
REVIS-N26	59	47	27	25	18
REVIS-N35	88	66	35	32	21
REVIS-N44	110	87	48	44	30
REVIS-S60	160	120	60	54	35
REVIS-N75	210	160	83	75	50
REVIS-N100	320	230	110	98	61

Product No.	20°C	25°C	37.78°C	40°C	50°C
REVIS-N140	400	300	160	140	90
REVIS-S200	550	400	200	180	110
REVIS-N250	790	580	280	250	160
REVIS-N350	980	710	340	310	190
REVIS-N415	1400	1000	470	410	250
REVIS-S600	1800	1300	590	520	310
REVIS-N750	2600	1800	850	750	450
REVIS-N1000	3300	2300	1100	940	560
REVIS-N1400	4900	3500	1600	1400	830
REVIS-S2000	8400	5300	1900	1600	810
REVIS-N2500	7900	5800	2800	2500	1500
REVIS-N4000	19000	12000	4000	3400	1700
REVIS-N5100	28000	17000	6000	5100	2500
REVIS-S8000	41000	25000	8000	6700	3200
REVIS-N10200	58000	36000		10000	4900
REVIS-N15000	77000	47000		13000	6100
REVIS-N18000	100000	64000		18000	8500
REVIS-S30000		79000	28000	23000	11000

## Reagents, Titrants & Standards for ASTM D664

### Acid Number of Petroleum Products by Potentiometric Titration

Product No.	Description	Pack Size	ASTM
EFSLIET	Electrolyte: 1M lithium Chloride in Ethanol	100ml	D664
104025	Buffer pH 4.00 - 25°C	1L	D664
107025	Buffer pH 7.00 - 25°C	1L	D664
111025	Buffer pH 11.00 - 25°C	1L	D664
PH 20101	0.1M Hydrochloric Acid in propan-2-ol	1L	D664
PH 201005	0.1M Hydrochloric Acid in propan-2-ol	500ml	D664
KOH01F	0.1M Potassium Hydroxide in propan-2-ol	1L	D664
KOH01H	0.1M Potassium Hydroxide in propan-2-ol	500ml	D664
KOH001F	0.01M Potassium Hydroxide in propan-2-ol	1L	D664
KOH001H	0.01M Potassium Hydroxide in propan-2-ol	500ml	D664
TANSOLVF	TAN Titration solvent. Per litre: 500mls toluene, 495mls propan-2-ol, 5mls water	1L	D664

### TAN Standards: All in a Synthetic Base Oil Matrix

Product No.	Description	Pack Size	ASTM
RETAN01	TAN standard: 0.1mg/g KOH	50g	D664
RETAN05	TAN standard: 0.5 mg/g KOH	50g	D664
RETAN10	TAN standard: 1.0 mg/g KOH	50g	D664
RETAN15	TAN standard: 1.5 mg/g KOH	50g	D664
RETAN20	TAN standard: 2.0 mg/g KOH	50g	D664
RETAN25	TAN standard: 2.5 mg/g KOH	50g	D664
RETAN30	TAN standard: 3.0 mg/g KOH	50g	D664
RETAN45	TAN standard: 4.5 mg/g KOH	50g	D664

## Reagents, Titrants & Standards for ASTM D2896

### Base Number of Petroleum Products by Potentiometric Titration

Product No.	Description	Pack Size	ASTM
P2010F	0.1M Perchloric Acid in glacial acetic acid	1L	D2896
P2010H	0.1M Perchloric Acid in glacial acetic acid	500ml	D2896
EFSNACLO4	Electrolyte: saturated sodium perchlorate in glacial acetic acid	100ml	D2896
TBNSOLV1F	TBN Titration solvent - 2:1 chlorobenzene and glacial acetic acid	1L	D2896
NAAC010F	0.1N sodium acetate in glacial acetic acid	1L	D2896
NAAC010F	0.1N sodium acetate in glacial acetic acid	500ml	D2896
104025	Buffer pH 4.00 - 25°C	1L	D2896
107025	Buffer pH 7.00 - 25°C	1L	D2896
111025	Buffer pH 11.00 - 25°C	1L	D2896
TBNSOLV2F	TBN Titration solvent - 0.4M tetraethylammonium bromide in	1L	D2896

### TBN Standards: All in a Synthetic Base Oil Matrix.

Product No.	Description	Pack Size	ASTM
RETBN1	TBN Standard: 1.0 mg/g KOH	50g	D2896
RETBN3	TBN Standard: 3.0 mg/g KOH	50g	D2896
RETBN6	TBN Standard: 6.0 mg/g KOH	50g	D2896
RETBN10	TBN Standard: 10 mg/g KOH	50g	D2896
RETBN15	TBN Standard: 15 mg/g KOH	50g	D2896
RETBN30	TBN Standard: 30 mg/g KOH	50g	D2896
RETBN40	TBN Standard: 40 mg/g KOH	50g	D2896
RETBN70	TBN Standard: 70 mg/g KOH	50g	D2896

### ASTM D5134 Standard Test Method for Detailed Analysis of Petroleum Naphthas through n-Nonane by Capillary Gas Chromatography

Product No.	Description	Constituents	Concentration	Pack Size	ASTM
REPIANO-P	Piano Paraffins	N-Pentane	Varies per batch	0.1mL	D6279
		N-Hexane			D6733
		N-Heptane			D5134
		N-Octane			D3710
		N-Nonane			D2789
		N-Decane			
		N-Undecane			
		N-Dodecane			
		N-Tridecane			
		N-Tetradecane			
		N-Pentadecane			

Product No.	Description	Constituents	Concentration	Pack Size	ASTM
REPIANO-I	Piano Isoparaffins	Isopentane	Varies per batch	0.1mL	D6279
		2,3-Dimethylbutane			D6733
		2-Methylpentane			D5134
		3-Methylpentane			D3710
		2,2-Dimethylpentane			D2789
		2,4-Dimethylpentane			
		2,2,3-Trimethylbutane			
		3,3-Dimethylpentane			
		2-Methylhexane			
		2,3-Dimethylpentane			
		3-Methylhexane			
		3-Ethylpentane			
		2,2-Dimethylhexane			
		2,5-Dimethylhexane			
		2,2,3-Trimethylpentane			
		2,4-Dimethylhexane			
		2,3-Dimethylhexane			
		2-Methylheptane			
		4-Methylheptane			
		3-Methylheptane			
		3-Ethylhexane			
		3,3-Dimethylheptane			
		2,5-Dimethylheptane			
		3,5-Dimethylheptane			
		2,3-Dimethylheptane			
		3,4-Dimethylheptane			
		2-Methyloctane			
		3-Methyloctane			
		3,3-Diethylpentane			
		2,2-Dimethyloctane			
3,3-Dimethyloctane					
2,3-Dimethyloctane					
3-Ethyloctane					
2-Methylnonane					
3-Methylnonane					

Product No.	Description	Constituents	Concentration	Pack Size	ASTM
REPIANO-A	PIANO Aromatics	Benzene	Varies per batch	0.1mL	D6279
		Toluene			D6733
		EthylBenzene			D5134
		m-Xylene			D3710
		p-Xylene			D2789
		o-Xylene			
		Isopropylbenzene			
		n-Propylbenzene			
		1-Methyl-3-ethylbenzene			
		1-Methyl-4-ethylbenzene			
		1,3,5-Trimethylbenzene			
		1-Methyl-2-ethylbenzene			
		1,2,4-Trimethylbenzene			
		tert-Butylbenzene			
		Isobutylbenzene			
		sec-Butylbenzene			
		1-Methyl-3-isopropylbenzene			
		1-Methyl-4-isopropylbenzene			
		1-Methyl-2-isopropylbenzene			
		1-Methyl-3-n-propylbenzene			
		1-Methyl-4-n-propylbenzene			
		n-Butylbenzene			
		1,2-Diethylbenzene			
		1-Methyl-2-n-propylbenzene			
		1,4-Dimethyl-2-ethylbenzene			
		1,3-Dimethyl-5-ethylbenzene			
		1,2-Dimethyl-4-ethylbenzene			
		1,3-Dimethyl-2-ethylbenzene			
		1,2-Dimethyl-3-ethylbenzene			
		1,2,4,5-Tetramethylbenzene			
		2-Methylbutylbenzene			
		trans-1-Butyl-1-2-methylbenzene			
		n-Pentylbenzene			
		t-1-Butyl-1,3,5-dimethylbenzene			
		t-1-butyl-ethylbenzene			
		1,3,5-Triethylbenzene			
		1,2,4-Triethylbenzene			
		n-Hexylbenzene			



Product No.	Description	Constituents	Concentration	Pack Size	ASTM
REPIANO-N	PIANO Naphthalenes	Cyclopentane	Varies per batch	0.1mL	D6279
		Methylcyclopentane			D6733
		Cyclohexane			D5134
		1,1-Dimethylcyclopentane			D3710
		cis-1,3-Dimethylcyclopentane			D2789
		trans-1,2-Dimethylcyclopentane			
		trans-1,3-Dimethylcyclopentane			
		Methylcyclohexane			
		Ethylcyclopentane			
		ctc-1,2,3-Trimethylcyclopentane			
		cct-1,2,4-Trimethylcyclopentane			
		ctc-1,2,4-Trimethylcyclopentane			
		trans-1,4-Dimethylcyclohexane			
		1-Ethyl-1-methylcyclopentane			
		trans-1,2-Dimethylcyclohexane			
		ccc-1,2,3-Trimethylcyclopentane			
		Isopropylcyclopentane			
		cis-1,2-Dimethylcyclohexane			
		n-Propylcyclopentane			
		ccc-1,3,5-Trimethylcyclohexane			
		1,1,4-Trimethylcyclohexane			
		ctt-1,2,4-Trimethylcyclohexane			
		ctc-1,2,4-Trimethylcyclohexane			
		1,1,2-Trimethylcyclohexane			
		Isobutylcyclopentane			
		Isopropylcyclohexane			
		n-Butylcyclopentane			
		Isobutylcyclohexane			
		t-1-Methyl-2-propylcyclohexane			
		t-1-Methyl-2-(4MP)cyclopentane			

Product No.	Description	Constituents	Concentration	Pack Size	ASTM
REPIANO-O	PIANO Olefins	3-Methyl-1-butene	Varies per batch	0.1mL	D6279
		1-Pentene			D6733
		2-Methyl-1-butene			D5134
		2-Methyl-1, 3-butadiene			D3710
		trans-2-Pentene			D2789
		cis-2-Pentene			
		4-Methylpentene-1			
		1-Hexene			
		trans-2-Hexene			
		2-Methylpentene-2			
		cis-2-Hexene			
		1-Heptene			
		trans-3-Heptene			
		cis-3-Heptene			
		trans-2-Heptene			
		cis-2-Heptene			
		1-Octene			
		trans-2-Octene			
		cis-2-Octene			
		1-Nonene			
		trans-3-Nonene			
		cis-3-Nonene			
		trans-2-Nonene			
		cis-2-Nonene			
		1-Decene			

Product No.	Description	Constituents	Concentration	Pack Size	ASTM
REPIANO-KIT	PIANO KIT	Kit Containing 0.1ml ampoules of one each of	Varies per batch	0.1mL x 5	D6279
		REPIANO-P			D6733
		REPIANO-I			D5134
		REPIANO-A			D3710
		REPIANO-N			D2789
		REPIANO-P			

Product No.	Description	Constituents	Concentration	Pack Size	ASTM
REPIANO1	PIANO 1 Standard	n-Pentane	Varies per batch	1ml	D6279
		n-Hexane			D6733
		n-Heptane			D5134
		n-Octane			D3710
		n-Nonane			D2789
		n-Decane			
		n-Undecane			
		n-Dodecane			
		Isopentane			
		2-Methyl Pentane			
		3-Methyl Pentane			
		2,2 Dimethylpentane			
		2,3 Dimethylpentane			
		2,4 Dimethylpentane			
		2,2,4 Trimethylpentane			
		Cyclohexane			
		Methylcyclohexane			
		Ethylcyclohexane			
		Propylcyclohexane			
		n-Butylcyclohexane			
		n-Pentylcyclohexane			
		Decalin			
		Benzene			
		Toluene			
		Propylbenzene			
		EthylBenzene			
		p-Xylene			
		Cumene			
		1,3,5-Trimethylbenzene			
		3-Ethyltoluene			
		1,2,4-Trimethylbenzene			
		1,2,4,5 Tetramethylbenzene			
		n-Butylbenzene			
		Iso-Butylbenzene			
		n-Pentylbenzene			
		1-Pentene			
		2,3,3 Trimethyl-1-Butene			
		2-Methyl-1-Heptene			
		1-Hexene			
		2,3-Dimethyl-2-Butene			
		1-Heptene			
		1-Nonene			
		1-Decene			
		1-Undecene			
		1-Dodecene			

Product No.	Description	Constituents	Concentration	Pack Size	ASTM
REPIANO1K	PIANO 1 Kit	Kit Containing 10 x REPIANO 1 1mL ampoules		10x 1mL	D6279 D6733 D5134 D3710 D2789

Product No.	Description	Constituents	Concentration	Pack Size	ASTM
REPONA	PONA Standard	1-Butene	Varies per batch	1mL	D6279
		1-Pentene			D6733
		1-Hexene			D5134
		1-Heptene			D3710
		1-Octene			D2789
		1-Nonene			D6298
		1-Decene			
		1-Undecene			
		1-Dodecene			
		N-Propane			
		N-Butane			
		N-Pentane			
		N-Hexane			
		N-Heptane			
		N-Octane			
		N-Nonane			
		N-Decane			
		N-Undecane			
		N-Dodecane			
		Methanol			
		Ethanol			
		tert- Butyl methyl ether			
		tert -Amyl methyl ether			
		tert –Butanol			
		tert– Butyl ethyl ether			
		Cyclopentane			
		Cyclohexane			
		Methylcyclohexane			
		Ethylcyclohexane			
		Propylcyclohexane			
		n-Butylcyclohexane			
		Benzene			
		Toluene			
		Ethylbenzene			
		Propylbenzene			
		N-Butylbenzene			
		N-Pentylbenzene			

Product No.	Description	Constituents	Concentration	Pack Size	ASTM
REPONAK	PONA Kit	Kit Containing 10 x REPONA 1mL ampoules	Varies per batch	10x 1mL	D6279
					D6733
					D5134
					D3710
					D2789
					D6298

## Density Standards @ 15°C

Product No.	Description	Pack size
DEN15010PY	Density Standard 0.6960g/ml @15°C	100ml
DEN15020PY	Density Standard 0.7073g/ml @15°C	100ml
DEN15030 PY	Density Standard 0.7184g/ml @15°C	100ml
DEN15040PY	Density Standard 0.7298g/ml @15°C	100ml
DEN15050PY	Density Standard 0.7411g/ml @15°C	100ml
DEN15060PY	Density Standard 0.7524g/ml @15°C	100ml
DEN15070PY	Density Standard 0.7721g/ml @15°C	100ml
DEN15080PY	Density Standard 0.7933g/ml @15°C	100ml
DEN15090PY	Density Standard 0.8168g/ml @15°C	100ml
DEN15100PY	Density Standard 0.8428g/ml @15°C	100ml
DEN15110PY	Density Standard 0.8715g/ml @15°C	100ml
DEN15120PY	Density Standard 0.9135g/ml @15°C	100ml
DEN15130PY	Density Standard 0.9514g/ml @15°C	100ml
DEN15140PY	Density Standard 1.0040g/ml @15°C	100ml
DEN15150PY	Density Standard 1.0337g/ml @15°C	100ml
DEN15160PY	Density Standard 1.0828g/ml @15°C	100ml
DEN15170PY	Density Standard 1.1661g/ml @15°C	100ml
DEN15180PY	Density Standard 1.2498g/ml @15°C	100ml
DEN15190PY	Density Standard 1.3318g/ml @15°C	100ml
DEN15200PY	Density Standard 1.4152g/ml @15°C	100ml
DEN15210PY	Density Standard 1.5820g/ml @15°C	100ml
DEN15220PY	Density Standard 1.7495g/ml @15°C	100ml
DEN15230PY	Density Standard 1.9171g/ml @15°C	100ml
DEN15240PY	Density Standard 2.0846g/ml @15°C	100ml
DEN15250PY	Density Standard 2.2568g/ml @15°C	100ml
DEN15260PY	Density Standard 2.4261g/ml @15°C	100ml
DEN15270PY	Density Standard 2.6055g/ml @15°C	100ml
DEN15280PY	Density Standard 2.7588g/ml @15°C	100ml
DEN15290PY	Density Standard 2.9418g/ml @15°C	100ml
DEN15300PY	Density Standard 3.1140g/ml @15°C	100ml

## Density Standards @ 20°C

Product No.	Description	Pack size
DEN20010PY	Density Standard 0.6919g/ml @20°C	100ml
DEN20020PY	Density Standard 0.7033g/ml @20°C	100ml
DEN20030PY	Density Standard 0.7148g/ml @20°C	100ml
DEN20040PY	Density Standard 0.7261g/ml @20°C	100ml
DEN20050PY	Density Standard 0.7374g/ml @20°C	100ml
DEN20060PY	Density Standard 0.7488g/ml @20°C	100ml
DEN20070PY	Density Standard 0.7683g/ml @20°C	100ml
DEN20080PY	Density Standard 0.7893g/ml @20°C	100ml
DEN20090PY	Density Standard 0.8126g/ml @20°C	100ml
DEN20100PY	Density Standard 0.8384g/ml @20°C	100ml
DEN20110PY	Density Standard 0.8668g/ml @20°C	100ml
DEN20120PY	Density Standard 0.9098g/ml @20°C	100ml
DEN20130PY	Density Standard 0.9476g/ml @20°C	100ml
DEN20140PY	Density Standard 1.0005g/ml @20°C	100ml
DEN20150PY	Density Standard 1.0301g/ml @20°C	100ml
DEN20160PY	Density Standard 1.0792g/ml @20°C	100ml
DEN20170PY	Density Standard 1.1651g/ml @20°C	100ml
DEN20180PY	Density Standard 1.2486g/ml @20°C	100ml
DEN20190PY	Density Standard 1.3304g/ml @20°C	100ml
DEN20200PY	Density Standard 1.4136g/ml @20°C	100ml
DEN20210PY	Density Standard 1.5799g/ml @20°C	100ml
DEN20220PY	Density Standard 1.7470g/ml @20°C	100ml
DEN20230PY	Density Standard 1.9141g/ml @20°C	100ml
DEN20240PY	Density Standard 2.0812g/ml @20°C	100ml
DEN20250PY	Density Standard 2.2531g/ml @20°C	100ml
DEN20260PY	Density Standard 2.4219g/ml @20°C	100ml
DEN20270PY	Density Standard 2.6011g/ml @20°C	100ml
DEN20280PY	Density Standard 2.7542g/ml @20°C	100ml
DEN20290PY	Density Standard 2.9370g/ml @20°C	100ml
DEN20300PY	Density Standard 3.1096g/ml @20°C	100ml

## Density Standards @ 25°C

Product No.	Description	Pack size
DEN25010PY	Density Standard 0.6878g/ml @25°C	100ml
DEN25020PY	Density Standard 0.6993g/ml @25°C	100ml
DEN25030PY	Density Standard 0.7111g/ml @25°C	100ml
DEN25040PY	Density Standard 0.7223g/ml @25°C	100ml
DEN25050PY	Density Standard 0.7337g/ml @25°C	100ml
DEN25060PY	Density Standard 0.7452g/ml @25°C	100ml
DEN25070PY	Density Standard 0.7645g/ml @25°C	100ml
DEN25080PY	Density Standard 0.7853g/ml @25°C	100ml
DEN25090PY	Density Standard 0.8084g/ml @25°C	100ml
DEN25100PY	Density Standard 0.8340g/ml @25°C	100ml
DEN25110PY	Density Standard 0.8622g/ml @25°C	100ml
DEN25120PY	Density Standard 0.9060g/ml @25°C	100ml
DEN25130PY	Density Standard 0.9438g/ml @25°C	100ml
DEN25140PY	Density Standard 0.9969g/ml @25°C	100ml
DEN25150PY	Density Standard 1.0265g/ml @25°C	100ml
DEN25160PY	Density Standard 1.0755g/ml @25°C	100ml
DEN25170PY	Density Standard 1.1639g/ml @25°C	100ml
DEN25180PY	Density Standard 1.2471g/ml @25°C	100ml
DEN25190PY	Density Standard 1.3287g/ml @25°C	100ml
DEN25200PY	Density Standard 1.4117g/ml @25°C	100ml
DEN25210PY	Density Standard 1.5775g/ml @25°C	100ml
DEN25220PY	Density Standard 1.7441g/ml @25°C	100ml
DEN25230PY	Density Standard 1.9108g/ml @25°C	100ml
DEN25240PY	Density Standard 2.0775g/ml @25°C	100ml
DEN25250PY	Density Standard 2.2490g/ml @25°C	100ml
DEN25260PY	Density Standard 2.4175g/ml @25°C	100ml
DEN25270PY	Density Standard 2.5964g/ml @25°C	100ml
DEN25280PY	Density Standard 2.7493g/ml @25°C	100ml
DEN25290PY	Density Standard 2.9319g/ml @25°C	100ml
DEN25300PY	Density Standard 3.1043g/ml @25°C	100ml



## Density Standards @ 40°C

Product No.	Description	Pack size
DEN40010PY	Density Standard 0.6752g/ml @40°C	100ml
DEN40020PY	Density Standard 0.6872g/ml @40°C	100ml
DEN40030PY	Density Standard 0.6997g/ml @40°C	100ml
DEN40040PY	Density Standard 0.7109g/ml @40°C	100ml
DEN40050PY	Density Standard 0.7226g/ml @40°C	100ml
DEN40060PY	Density Standard 0.7343g/ml @40°C	100ml
DEN40070PY	Density Standard 0.7531g/ml @40°C	100ml
DEN40080PY	Density Standard 0.7733g/ml @40°C	100ml
DEN40090PY	Density Standard 0.7958g/ml @40°C	100ml
DEN40100PY	Density Standard 0.8207g/ml @40°C	100ml
DEN40110PY	Density Standard 0.8482g/ml @40°C	100ml
DEN40120PY	Density Standard 0.8945g/ml @40°C	100ml
DEN40130PY	Density Standard 0.9323g/ml @40°C	100ml
DEN40140PY	Density Standard 0.9857g/ml @40°C	100ml
DEN40150PY	Density Standard 1.0152g/ml @40°C	100ml
DEN40160PY	Density Standard 1.0642g/ml @40°C	100ml
DEN40170PY	Density Standard 1.1581g/ml @40°C	100ml
DEN40180PY	Density Standard 1.2408g/ml @40°C	100ml
DEN40190PY	Density Standard 1.3217g/ml @40°C	100ml
DEN40200PY	Density Standard 1.4039g/ml @40°C	100ml
DEN40210PY	Density Standard 1.5685g/ml @40°C	100ml
DEN40220PY	Density Standard 1.7339g/ml @40°C	100ml
DEN40230PY	Density Standard 1.8994g/ml @40°C	100ml
DEN40240PY	Density Standard 2.0649g/ml @40°C	100ml
DEN40250PY	Density Standard 2.2352g/ml @40°C	100ml
DEN40260PY	Density Standard 2.4028g/ml @40°C	100ml
DEN40270PY	Density Standard 2.5807g/ml @40°C	100ml
DEN40280PY	Density Standard 2.7329g/ml @40°C	100ml
DEN40290PY	Density Standard 2.9132g/ml @40°C	100ml
DEN40300PY	Density Standard 3.0852g/ml @40°C	100ml

## Density Standards @ 50°C

Product No.	Description	Pack size
DEN50010PY	Density Standard 0.6668g/ml @50°C	100ml
DEN50020PY	Density Standard 0.6791g/ml @50°C	100ml
DEN50030PY	Density Standard 0.6917g/ml @50°C	100ml
DEN50040PY	Density Standard 0.7033g/ml @50°C	100ml
DEN50050PY	Density Standard 0.7151g/ml @50°C	100ml
DEN50060PY	Density Standard 0.7269g/ml @50°C	100ml
DEN50070PY	Density Standard 0.7454g/ml @50°C	100ml
DEN50080PY	Density Standard 0.7653g/ml @50°C	100ml
DEN50090PY	Density Standard 0.7873g/ml @50°C	100ml
DEN50100PY	Density Standard 0.8118g/ml @50°C	100ml
DEN50110PY	Density Standard 0.8387g/ml @50°C	100ml
DEN50120PY	Density Standard 0.8868g/ml @50°C	100ml
DEN50130PY	Density Standard 0.9245g/ml @50°C	100ml
DEN50140PY	Density Standard 0.9777g/ml @50°C	100ml
DEN50150PY	Density Standard 1.0073g/ml @50°C	100ml
DEN50160PY	Density Standard 1.0562g/ml @50°C	100ml
DEN50170PY	Density Standard 1.1512g/ml @50°C	100ml
DEN50180PY	Density Standard 1.2346g/ml @50°C	100ml
DEN50190PY	Density Standard 1.3138g/ml @50°C	100ml
DEN50200PY	Density Standard 1.3973g/ml @50°C	100ml
DEN50210PY	Density Standard 1.5609g/ml @50°C	100ml
DEN50220PY	Density Standard 1.7257g/ml @50°C	100ml
DEN50230PY	Density Standard 1.8904g/ml @50°C	100ml
DEN50240PY	Density Standard 2.0551g/ml @50°C	100ml
DEN50250PY	Density Standard 2.2247g/ml @50°C	100ml
DEN50260PY	Density Standard 2.3916g/ml @50°C	100ml
DEN50270PY	Density Standard 2.5689g/ml @50°C	100ml
DEN50280PY	Density Standard 2.7207g/ml @50°C	100ml
DEN50290PY	Density Standard 2.9005g/ml @50°C	100ml
DEN50300PY	Density Standard 3.0721g/ml @50°C	100ml

## Density Standards @ 60°C

Product No.	Description	Pack size
DEN60010PY	Density Standard 0.6582g/ml @60°C	100ml
DEN60020PY	Density Standard 0.6708g/ml @60°C	100ml
DEN60030PY	Density Standard 0.6835g/ml @60°C	100ml
DEN60040PY	Density Standard 0.6955g/ml @60°C	100ml
DEN60050PY	Density Standard 0.7076g/ml @60°C	100ml
DEN60060PY	Density Standard 0.7196g/ml @60°C	100ml
DEN60070PY	Density Standard 0.7376g/ml @60°C	100ml
DEN60080PY	Density Standard 0.7572g/ml @60°C	100ml
DEN60090PY	Density Standard 0.7788g/ml @60°C	100ml
DEN60100PY	Density Standard 0.8027g/ml @60°C	100ml
DEN60110PY	Density Standard 0.8292g/ml @60°C	100ml
DEN60120PY	Density Standard 0.8790g/ml @60°C	100ml
DEN60130PY	Density Standard 0.9166g/ml @60°C	100ml
DEN60140PY	Density Standard 0.9695g/ml @60°C	100ml
DEN60150PY	Density Standard 0.9990g/ml @60°C	100ml
DEN60160PY	Density Standard 1.0478g/ml @60°C	100ml

## Density Standards @ 80°C

Product No.	Description	Pack size
DEN80010PY	Density Standard 0.6407g/ml @80°C	100ml
DEN80020PY	Density Standard 0.6538g/ml @80°C	100ml
DEN80030PY	Density Standard 0.6661g/ml @80°C	100ml
DEN80040PY	Density Standard 0.6798g/ml @80°C	100ml
DEN80050PY	Density Standard 0.6923g/ml @80°C	100ml
DEN80060PY	Density Standard 0.7047g/ml @80°C	100ml
DEN80070PY	Density Standard 0.7220g/ml @80°C	100ml
DEN80080PY	Density Standard 0.7407g/ml @80°C	100ml
DEN80090PY	Density Standard 0.7614g/ml @80°C	100ml
DEN80100PY	Density Standard 0.7844g/ml @80°C	100ml
DEN80110PY	Density Standard 0.8098g/ml @80°C	100ml
DEN80120PY	Density Standard 0.8629g/ml @80°C	100ml
DEN80130PY	Density Standard 0.9006g/ml @80°C	100ml
DEN80140PY	Density Standard 0.9520g/ml @80°C	100ml
DEN80150PY	Density Standard 0.9815g/ml @80°C	100ml
DEN80160PY	Density Standard 1.0302g/ml @80°C	100ml

## Density Standards @ 15°C

Product No.	Description	Pack size
DEN15010	Density Standard 0.6960g/ml @15°C	100ml
DEN15020	Density Standard 0.7073g/ml @15°C	100ml
DEN15030	Density Standard 0.7184g/ml @15°C	100ml
DEN15040	Density Standard 0.7298g/ml @15°C	100ml
DEN15050	Density Standard 0.7411g/ml @15°C	100ml
DEN15060	Density Standard 0.7524g/ml @15°C	100ml
DEN15070	Density Standard 0.7721g/ml @15°C	100ml
DEN15080	Density Standard 0.7933g/ml @15°C	100ml
DEN15090	Density Standard 0.8168g/ml @15°C	100ml
DEN15100	Density Standard 0.8428g/ml @15°C	100ml
DEN15110	Density Standard 0.8715g/ml @15°C	100ml
DEN15120	Density Standard 0.9135g/ml @15°C	100ml
DEN15130	Density Standard 0.9514g/ml @15°C	100ml
DEN15140	Density Standard 1.0040g/ml @15°C	100ml
DEN15150	Density Standard 1.0337g/ml @15°C	100ml

## Density Standards @ 20°C

Product No.	Description	Pack size
DEN20010	Density Standard 0.6919g/ml @20°C	100ml
DEN20020	Density Standard 0.7033g/ml @20°C	100ml
DEN20030	Density Standard 0.7148g/ml @20°C	100ml
DEN20040	Density Standard 0.7261g/ml @20°C	100ml
DEN20050	Density Standard 0.7374g/ml @20°C	100ml
DEN20060	Density Standard 0.7488g/ml @20°C	100ml
DEN20070	Density Standard 0.7683g/ml @20°C	100ml
DEN20080	Density Standard 0.7893g/ml @20°C	100ml
DEN20090	Density Standard 0.8126g/ml @20°C	100ml
DEN20100	Density Standard 0.8384g/ml @20°C	100ml
DEN20110	Density Standard 0.8668g/ml @20°C	100ml
DEN20120	Density Standard 0.9098g/ml @20°C	100ml
DEN20130	Density Standard 0.9476g/ml @20°C	100ml
DEN20140	Density Standard 1.0005g/ml @20°C	100ml
DEN20150	Density Standard 1.0301g/ml @20°C	100ml

## Density Standards @ 25°C

Product No.	Description	Pack size
DEN25010	Density Standard 0.6878g/ml @25°C	100ml
DEN25020	Density Standard 0.6993g/ml @25°C	100ml
DEN25030	Density Standard 0.7111g/ml @25°C	100ml
DEN25040	Density Standard 0.7223g/ml @25°C	100ml
DEN25050	Density Standard 0.7337g/ml @25°C	100ml
DEN25060	Density Standard 0.7452g/ml @25°C	100ml
DEN25070	Density Standard 0.7645g/ml @25°C	100ml
DEN25080	Density Standard 0.7853g/ml @25°C	100ml
DEN25090	Density Standard 0.8084g/ml @25°C	100ml
DEN25100	Density Standard 0.8340g/ml @25°C	100ml
DEN25110	Density Standard 0.8622g/ml @25°C	100ml
DEN25120	Density Standard 0.9060g/ml @25°C	100ml
DEN25130	Density Standard 0.9438g/ml @25°C	100ml
DEN25140	Density Standard 0.9969g/ml @25°C	100ml
DEN25150	Density Standard 1.0265g/ml @25°C	100ml

## Density Standards @ 40°C

Product No.	Description	Pack size
DEN40010	Density Standard 0.6752g/ml @40°C	100ml
DEN40020	Density Standard 0.6872g/ml @40°C	100ml
DEN40030	Density Standard 0.6997g/ml @40°C	100ml
DEN40040	Density Standard 0.7109g/ml @40°C	100ml
DEN40050	Density Standard 0.7226g/ml @40°C	100ml
DEN40060	Density Standard 0.7343g/ml @40°C	100ml
DEN40070	Density Standard 0.7531g/ml @40°C	100ml
DEN40080	Density Standard 0.7733g/ml @40°C	100ml
DEN40090	Density Standard 0.7958g/ml @40°C	100ml
DEN40100	Density Standard 0.8207g/ml @40°C	100ml
DEN40110	Density Standard 0.8482g/ml @40°C	100ml
DEN40120	Density Standard 0.8945g/ml @40°C	100ml
DEN40130	Density Standard 0.9323g/ml @40°C	100ml
DEN40140	Density Standard 0.9857g/ml @40°C	100ml
DEN40150	Density Standard 1.0152g/ml @40°C	100ml

## Density Standards @ 50°C

Product No.	Description	Pack size
DEN50010	Density Standard 0.6668g/ml @50°C	100ml
DEN50020	Density Standard 0.6791g/ml @50°C	100ml
DEN50030	Density Standard 0.6917g/ml @50°C	100ml
DEN50040	Density Standard 0.7033g/ml @50°C	100ml
DEN50050	Density Standard 0.7151g/ml @50°C	100ml
DEN50060	Density Standard 0.7269g/ml @50°C	100ml
DEN50070	Density Standard 0.7454g/ml @50°C	100ml
DEN50080	Density Standard 0.7653g/ml @50°C	100ml
DEN50090	Density Standard 0.7873g/ml @50°C	100ml
DEN50100	Density Standard 0.8118g/ml @50°C	100ml
DEN50110	Density Standard 0.8387g/ml @50°C	100ml
DEN50120	Density Standard 0.8868g/ml @50°C	100ml
DEN50130	Density Standard 0.9245g/ml @50°C	100ml
DEN50140	Density Standard 0.9777g/ml @50°C	100ml
DEN50150	Density Standard 1.0073g/ml @50°C	100ml

## Density Standards @ 60°C

Product No.	Description	Pack size
DEN60010	Density Standard 0.6582g/ml @60°C	100ml
DEN60020	Density Standard 0.6708g/ml @60°C	100ml
DEN60030	Density Standard 0.6835g/ml @60°C	100ml
DEN60040	Density Standard 0.6955g/ml @60°C	100ml
DEN60050	Density Standard 0.7076g/ml @60°C	100ml
DEN60060	Density Standard 0.7196g/ml @60°C	100ml
DEN60070	Density Standard 0.7376g/ml @60°C	100ml
DEN60080	Density Standard 0.7572g/ml @60°C	100ml
DEN60090	Density Standard 0.7788g/ml @60°C	100ml
DEN60100	Density Standard 0.8027g/ml @60°C	100ml
DEN60110	Density Standard 0.8292g/ml @60°C	100ml
DEN60120	Density Standard 0.8790g/ml @60°C	100ml
DEN60130	Density Standard 0.9166g/ml @60°C	100ml
DEN60140	Density Standard 0.9695g/ml @60°C	100ml
DEN60150	Density Standard 0.9990g/ml @60°C	100ml

## Density Standards @ 80°C

Product No.	Description	Pack size
DEN80010	Density Standard 0.6407g/ml @80°C	100ml
DEN80020	Density Standard 0.6538g/ml @80°C	100ml
DEN80030	Density Standard 0.6661g/ml @80°C	100ml
DEN80040	Density Standard 0.6798g/ml @80°C	100ml
DEN80050	Density Standard 0.6923g/ml @80°C	100ml
DEN80060	Density Standard 0.7047g/ml @80°C	100ml
DEN80070	Density Standard 0.7220g/ml @80°C	100ml
DEN80080	Density Standard 0.7407g/ml @80°C	100ml
DEN80090	Density Standard 0.7614g/ml @80°C	100ml
DEN80100	Density Standard 0.7844g/ml @80°C	100ml
DEN80110	Density Standard 0.8098g/ml @80°C	100ml
DEN80120	Density Standard 0.8629g/ml @80°C	100ml
DEN80130	Density Standard 0.9006g/ml @80°C	100ml
DEN80140	Density Standard 0.9520g/ml @80°C	100ml
DEN80150	Density Standard 0.9815g/ml @80°C	100ml
DEN80160	Density Standard 1.0302g/ml @80°C	100ml