



**RD94 CERTIFICATE OF ACCEPTED REFERENCE VALUE
 AS DETERMINED GRAVIMETRICALLY & ANALYTICALLY**

Spectrum Quality Standards

D5580 CALIBRATION SET MIXTURES 1-7

ISO 17034 Accredited
 A2LA Certificate Number: 4903.01

ISSUED BY: Spectrum Quality Standards, Ltd. Issue Date: 06-22-2022	ANALYTICAL UNCERTAINTY: +/- 1% SET LOT #: RN041322AAEE
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Supplied To: **SAO VIET TECHNOLOGIES CO., LTD**
HO CHI MINH CITY, VIETNAM

ASTM Reference: D5580
 SQS Part Number: 5580CAL
 Date of Expiration: 06/2023

MIX #1 COMPONENTS	CONCENTRATION		GRAMS	MIX #2 COMPONENTS	CONCENTRATION		GRAMS
	[% LV.]	[% WT.]			[% LV.]	[% WT.]	
BENZENE	0.100	0.119	0.1749	BENZENE	0.500	0.599	0.8742
TOLUENE	15.00	17.69	25.96	TOLUENE	5.00	5.94	8.668
ETHYL BENZENE	0.500	0.594	0.8720	ETHYL BENZENE	1.00	1.19	1.743
O-XYLENE	5.00	6.00	8.802	O-XYLENE	1.00	1.20	1.758
1,2,4-TRIMETHYLBENZENE	0.500	0.606	0.8892	1,2,4-TRIMETHYLBENZENE	10.00	12.19	17.79
HEXANONE				HEXANONE	10.00	11.01	18.05

MIX #3 COMPONENTS	CONCENTRATION		GRAMS	MIX #4 COMPONENTS	CONCENTRATION		GRAMS
	[% LV.]	[% WT.]			[% LV.]	[% WT.]	
BENZENE	0.99	1.19	1.748	BENZENE	2.00	2.38	3.501
TOLUENE	10.00	11.86	17.30	TOLUENE	2.50	2.95	4.332
ETHYL BENZENE	2.50	2.99	4.366	ETHYL BENZENE	5.00	5.94	8.726
O-XYLENE	2.51	3.03	4.424	O-XYLENE	10.00	11.97	17.58
1,2,4-TRIMETHYLBENZENE	2.50	3.04	4.448	1,2,4-TRIMETHYLBENZENE	1.00	1.21	1.778
HEXANONE	10.00	11.01	18.06	HEXANONE	10.00	10.94	18.05

MIX #5 COMPONENTS	CONCENTRATION		GRAMS	MIX (VT) COMPONENTS	CONCENTRATION		GRAMS
	[% LV.]	[% WT.]			[% LV.]	[% WT.]	
BENZENE	5.00	5.94	8.750	BENZENE	5.00	5.96	10.18
TOLUENE	1.00	1.17	1.731	TOLUENE	4.99	5.87	10.03
ETHYL BENZENE	10.00	11.85	17.44	ETHYL BENZENE	5.00	5.87	10.04
O-XYLENE	0.500	0.597	0.8795	O-XYLENE	5.01	5.98	10.22
1,2,4-TRIMETHYLBENZENE	5.00	6.04	8.895	1,2,4-TRIMETHYLBENZENE	5.00	5.93	10.17
HEXANONE	10.00	10.92	18.05	HEXANONE	10.00	10.88	20.89

MIX (SEL) COMPONENTS	CONCENTRATION		LOT #	GRAMS
	[% LV.]	[% WT.]		
N-DODECANE	1.51	1.62	MIX VT: RN110421A	MIX 1: 109.89
			MIX SEL: RN110421B	MIX 2: 114.90
				MIX 3: 113.51
				MIX 4: 110.72
				MIX 5: 109.32
				MIX (VT): 109.67
				MIX (SEL): 161.19

BALANCE: ISOCTANE
 S.G. @ 60 °F = [0.6963]

All standards are made in accordance with ASTM D5580. HEXANONE added as internal per method D4307.

Materials must be stored at a temperature between 20 °F and 90 °F.
 Follow all handling and storage instructions.

All designated PPE listed on the product label must be used.

All designated PPE as stated by ASTM in the method must be used.

Material is intended for single use and is in a quantity sufficient to the intended method except when provided in quantities of 2 oz., 4 oz., and larger containers.

Material is intended for use by the above listed method.

APPROVED SIGNATORY: _____
 CEO of SQS, Gary Lew

NIST TRACEABLE BY WEIGHT – WEIGHT SET 005 – CAL LAB CERT# 476401-1 and 1346502 inspections and adjustments are performed in accordance with Allometrics, an A2LA accredited company, work instruction 5-4WI03 in compliance with ISO/IEC 17025, ANSI/NCCL Z540-1 and the principles of ISO 9001:2015. For Safety, Storage, Handling, Chemical Data and Hazardous Information, please consult the SDS associated with this item. This item for laboratory analysis only; proper handling and safety procedures must be followed at all times.