

## LIST of certified reference materials approved for recognition as COOMET CRMs

№	CRM name	Name of the TC that recommended the CRM for recognition  No. of the minutes and date of the meeting	Country, organisation CRM registration number in the National Register	Link to the KCDB Date of the comparison	Countries joined to the CRM recognition	Number of the project within which the CRM is submitted
1.	CRM for sorption properties of nanoporous carbon (C SO UNIIM)	TC 1.12 «Reference Materials»  Minutes No. 27–2022 dated 12.09.2022	Russia UNIIM – Affiliated Branch of the D.I.Mendeleyev Institute for Metrology  <b>GSO 10735-2015</b>	<a href="https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=10735-2015&amp;specificPart.category=-1&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=30.06.2017">https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=10735-2015&amp;specificPart.category=-1&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=30.06.2017</a>	Azerbaijan Armenia Belarus Kazakhstan Slovakia	858/RU/22
2.	CRM for composition of sodium chloride of the 1st class	TC 1.12 «Reference Materials»  Minutes No. 27–2022 dated 12.09.2022	Russia UNIIM – Affiliated Branch of the D.I.Mendeleyev Institute for Metrology  <b>GSO 4391-88</b>	<a href="https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=4391-88&amp;specificPart.category=-1&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=30.06.2017">https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=4391-88&amp;specificPart.category=-1&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=30.06.2017</a>	Azerbaijan Armenia Belarus Kazakhstan Slovakia	858/RU/22

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3.	CRM for composition of glycine (SG SO UNIIM)	TC 1.12 «Reference Materials»  Minutes No. 27–2022 dated 12.09.2022	Russia UNIIM – Affiliated Branch of the D.I.Mendeleyev Institute for Metrology  <b>GSO 10272-2013</b>	<a href="https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=10272-2013&amp;specificPart.category=-1&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=23.10.2019">https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=10272-2013&amp;specificPart.category=-1&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=23.10.2019</a>	Azerbaijan Armenia Belarus Kazakhstan Slovakia	858/RU/22
4.	CRM for composition of sulphamic acid (NH <sub>2</sub> SO <sub>2</sub> H SO UNIIM)	TC 1.12 «Reference Materials»  Minutes No. 27–2022 dated 12.09.2022	Russia UNIIM – Affiliated Branch of the D.I.Mendeleyev Institute for Metrology  <b>GSO 10498-2014</b>	<a href="https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=10498-2014&amp;specificPart.category=-1&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=23.10.2019">https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=10498-2014&amp;specificPart.category=-1&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=23.10.2019</a>	Azerbaijan Armenia Belarus Kazakhstan Slovakia	858/RU/22
5.	CRM for nanoporous aluminium oxide (Al <sub>2</sub> O <sub>3</sub> SO UNIIM)	TC 1.12 «Reference Materials»  Minutes No. 27–2022 dated 12.09.2022	Russia UNIIM – Affiliated Branch of the D.I.Mendeleyev Institute for Metrology  <b>GSO 10449-2014</b>	<a href="https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=10449-2014&amp;specificPart.category=-1&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=30.06.2017">https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=10449-2014&amp;specificPart.category=-1&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=30.06.2017</a>	Azerbaijan Armenia Belarus Kazakhstan Slovakia	858/RU/22

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6.	CRM for composition of potassium chloride	TC 1.12 «Reference Materials»  Minutes No. 27–2022 dated 12.09.2022	Russia UNIIM – Affiliated Branch of the D.I.Mendeleyev Institute for Metrology  <b>GSO 9969-2011</b>	<a href="https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=9969-2011&amp;specificPart.category=-1&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=30.06.2017">https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=9969-2011&amp;specificPart.category=-1&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=30.06.2017</a>	Azerbaijan Armenia Belarus Kazakhstan Slovakia	858/RU/22
7.	CRM for the composition of the calibration gas mixture of propane in nitrogen (C <sub>3</sub> H <sub>8</sub> -N <sub>2</sub> )	TC 1.12 «Reference Materials»  Minutes No. 27–2022 dated 12.09.2022	Kazakhstan Karaganda branch RSE «KazStandard»  <b>KZ.03.01.00113-2009</b>	<a href="https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=00113-2009&amp;specificPart.category=10&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=27.05.2020">https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=00113-2009&amp;specificPart.category=10&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=27.05.2020</a>	Armenia Belarus Russia Slovakia	858/RU/22
8.	CRM for the composition of the calibration gas mixture of propane in helium (C <sub>3</sub> H <sub>8</sub> -He) (an analogue of GSO 9074-2008)	TC 1.12 «Reference Materials»  Minutes No. 27–2022 dated 12.09.2022	Kazakhstan Karaganda branch RSE «KazStandard»  <b>KZ.04.01.00025-2020</b>	<a href="https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=00526-2015&amp;specificPart.category=10&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=27.05.2020">https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=00526-2015&amp;specificPart.category=10&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=27.05.2020</a>	Armenia Russia Slovakia	858/RU/22

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9.	CRM for the composition of the calibration gas mixture of propane in nitrogen (C <sub>3</sub> H <sub>8</sub> -N <sub>2</sub> )	TC 1.12 «Reference Materials»  Minutes No. 27–2022 dated 12.09.2022	Kazakhstan Karaganda branch RSE «KazStandard»  <b>KZ.03.01.00539-2015</b>	<a href="https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=00539-2015&amp;specificPart.category=10&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=27.05.2020">https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=00539-2015&amp;specificPart.category=10&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=27.05.2020</a>	Armenia Russia Slovakia	858/RU/22
10.	CRM for the composition of the calibration gas mixture of propane in nitrogen (C <sub>3</sub> H <sub>8</sub> -N <sub>2</sub> )	TC 1.12 «Reference Materials»  Minutes No. 27–2022 dated 12.09.2022	Kazakhstan Karaganda branch RSE «KazStandard»  <b>KZ.03.01.00540-2015</b>	<a href="https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=00540-2015&amp;specificPart.category=10&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=27.05.2020">https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=00540-2015&amp;specificPart.category=10&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=27.05.2020</a>	Armenia Russia Slovakia	858/RU/22
11.	CRM for the composition of the calibration gas mixture of propane in nitrogen (C <sub>3</sub> H <sub>8</sub> -N <sub>2</sub> )	TC 1.12 «Reference Materials»  Minutes No. 27–2022 dated 12.09.2022	Kazakhstan Karaganda branch RSE «KazStandard»  <b>KZ.03.01.00541-2015</b>	<a href="https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=00541-2015&amp;specificPart.category=10&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=27.05.2020">https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=00541-2015&amp;specificPart.category=10&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=27.05.2020</a>	Armenia Russia Slovakia	858/RU/22

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12.	CRM for the composition of the calibration gas mixture of propane in nitrogen (C <sub>3</sub> H <sub>8</sub> -N <sub>2</sub> )	TC 1.12 «Reference Materials»  Minutes No. 27–2022 dated 12.09.2022	Kazakhstan Karaganda branch RSE «KazStandard»  <b>KZ.03.01.00543-2015</b>	<a href="https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=00543-2015&amp;specificPart.category=10&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=27.05.2020">https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=00543-2015&amp;specificPart.category=10&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=27.05.2020</a>	Armenia Belarus Russia Slovakia	858/RU/22
13.	CRM for the composition of the calibration gas mixture of carbon monoxide, carbon dioxide, propane in nitrogen (CO-CO <sub>2</sub> -C <sub>3</sub> H <sub>8</sub> -N <sub>2</sub> ) (an analogue of GSO 8376-2003)	TC 1.12 «Reference Materials»  Minutes No. 27–2022 dated 12.09.2022	Kazakhstan Karaganda branch RSE «KazStandard»  <b>KZ.03.01.00556-2015</b>	<a href="https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=00556-2015&amp;specificPart.category=10&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=27.05.2020">https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=00556-2015&amp;specificPart.category=10&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=27.05.2020</a>	Armenia Belarus Russia Slovakia	858/RU/22
14.	CRM for the composition of the calibration gas mixture of carbon monoxide, carbon dioxide, oxygen, propane in nitrogen (CO-CO <sub>2</sub> -O <sub>2</sub> -C <sub>3</sub> H <sub>8</sub> -N <sub>2</sub> ) (an analogue of GSO 8377-2003)	TC 1.12 «Reference Materials»  Minutes No. 27–2022 dated 12.09.2022	Kazakhstan Karaganda branch RSE «KazStandard»  <b>KZ.03.01.00557-2015</b>	<a href="https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=00557-2015&amp;specificPart.category=10&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=27.05.2020">https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=00557-2015&amp;specificPart.category=10&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=27.05.2020</a>	Armenia Russia Slovakia	858/RU/22

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15.	CRM for the composition of the calibration gas mixture of carbon monoxide, carbon dioxide, oxygen, propane in nitrogen/air (CO-CO <sub>2</sub> -O <sub>2</sub> *-C <sub>3</sub> H <sub>8</sub> -N <sub>2</sub> /air)	TC 1.12 «Reference Materials»  Minutes No. 27–2022 dated 12.09.2022	Kazakhstan Karaganda branch RSE «KazStandard»  <b>KZ.03.01.00558-2015</b>	<a href="https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=00558-2015&amp;specificPart.category=10&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=">https://www.bipm.org/kcdb/cmc/search?domain=CHEM-BIO&amp;areald=8&amp;keywords=00558-2015&amp;specificPart.category=10&amp;specificPart.analyte=&amp;countries=1&amp;publicDateFrom=&amp;publicDateTo=&amp;unit=-1&amp;minValue=&amp;maxValue=&amp;minUncertainty=&amp;maxUncertainty=</a> 27.05.2020	Armenia Belarus Russia Slovakia	858/RU/22