



# Carbon Group

## PRODUCT RANGE **SPECIFICATIONS**

**HPLC  
GRADE**



**AR  
GRADE**



**GPR  
GRADE**



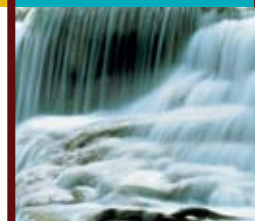
**ANHYDROUS  
GRADE**



**ACIDS/BASES  
GRADE**



**WATER  
GRADE**



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## ACETONE

CHEMICAL NAME	Acetone, HPLC Grade
CAS NUMBER	67-64-1
EC NUMBER	200-662-2
MOLECULAR FORMULA	C <sub>3</sub> H <sub>6</sub> O
RELATIVE MOLECULAR WEIGHT	58.08
BOILING POINT	56.2°C (1013 hPa)
DENSITY	0.791 @ 20°C
REFRACTIVE INDEX	1.3591
UN NUMBER	1090

### Specifications

ASSAY (BY GC)	99.8 % min (dry basis)
ACIDITY AS CH <sub>3</sub> COOH	20 ppm max
APPEARANCE	Clear & free of suspended matter
WATER	2000 ppm max
RESIDUE ON EVAPORATION	2 ppm max

### Transmission characteristics

WAVELENGTH (nm)	TRANSMISSION (% min)
335	50
340	80
350	98
355	99

Ultraviolet: (1 cm quartz cells versus deionised water)



**HIGHLY FLAMMABLE IRRITANT**  
R11,36,66,67 S9,16,26

**HPLC GRADE**

## ACETONITRILE – GRADIENT

CHEMICAL NAME	Acetonitrile, (Methyl cyanide), HPLC-S GG
CAS NUMBER	75-05-8
EC NUMBER	200-835-2
MOLECULAR FORMULA	C <sub>2</sub> H <sub>3</sub> N
RELATIVE MOLECULAR WEIGHT	41.05
BOILING POINT	81.6°C (1013 hPa)
DENSITY	0.782 @ 20°C
REFRACTIVE INDEX	1.3442
UN NUMBER	1648

### Specifications

ASSAY (BY GC)	99.95 % min
ACIDITY AS CH <sub>3</sub> COOH	0.008% max
ALKALINITY (as NH <sub>3</sub> )	0.006% max
WATER (KF)	0.03% max

### Transmission characteristics

WAVELENGTH (nm)	TRANSMISSION (% min)
193	60
195	80
200	95
220	98
230	98
254	99

Ultraviolet: (1 cm quartz cells versus deionised water)

### LC-Gradient elution test:

Highest peak: 210 nm 0.002 AU max / 254 nm 0.0005 AU max  
Drift: 210 nm 0.01AU max  
Fluorescence as quinine: 450 nm 0.3 ppb max  
Filtered through 0.2 PTFE. Bottled under inert gas



**HIGHLY FLAMMABLE HARMFUL**  
R11,20/21/22,36 S16,36/37

**HPLC GRADE**

## ACETONITRILE

CHEMICAL NAME	Acetonitrile, (Methyl cyanide), HPLC G
CAS NUMBER	75-05-8
EC NUMBER	200-835-2
MOLECULAR FORMULA	C <sub>2</sub> H <sub>3</sub> N
RELATIVE MOLECULAR WEIGHT	41.05
BOILING POINT	81.6°C (1013 hPa)
DENSITY	0.782 @ 20°C
REFRACTIVE INDEX	1.3442
UN NUMBER	1648

### Specifications

ASSAY (BY GC)	99.90 % min
ACIDITY AS CH <sub>3</sub> COOH	0.008 mEq/g max
ALKALINITY	0.0006 mEq/g max
APPEARANCE	Clear and free of suspended matter
WATER	50 ppm max
RESIDUE ON EVAPORATION	2 ppm max

### Transmission characteristics

WAVELENGTH (nm)	TRANSMISSION (% min)
200	92
210	95
220	98
254	99

Ultraviolet: (1 cm quartz cells versus deionised water)



**HIGHLY FLAMMABLE HARMFUL**  
R11,20/21/22,36 S16,36/37

**HPLC GRADE**

## CYCLOHEXANE

CHEMICAL NAME	Cyclohexane, HPLC
CAS NUMBER	110-82-7
EC NUMBER	203-806-2
CHEMICAL FORMULA	C <sub>6</sub> H <sub>12</sub>
RELATIVE MOLECULAR WEIGHT	84.16
BOILING POINT	80.56°C (1013 hPa)
FLASH POINT	-17°C
DENSITY	0.778 @ 20°C
REFRACTIVE INDEX	1.4264
UN NUMBER	1145

### Specifications

ASSAY (BY GC on anhydr.basis)	99.80 % min
COLOR (APHA)	10 max
ACIDITY AS CH <sub>3</sub> COOH	0.002% max
WATER (KF)	0.01% max
RESIDUE ON EVAPORATION	0.0002% max

### Transmission characteristics

WAVELENGTH (nm)	TRANSMISSION (% min)
335	50
340	80
350	98
355	99

Ultraviolet: (1 cm quartz cells versus deionised water)

Filtered through 0.2µ PTFE. Bottled under inert gas



**HIGHLY FLAMMABLE HARMFUL DANGEROUS FOR ENVIRONMENT**  
R11,38,50/53,65,67 S9,16,33,60,61,62

**HPLC GRADE**

## ETHANOL ABSOLUTE

CHEMICAL NAME	Ethyl Alcohol, HPLC
CAS NUMBER	64-17-5
EC NUMBER	200-578-6
CHEMICAL FORMULA	C <sub>2</sub> H <sub>5</sub> O
RELATIVE MOLECULAR WEIGHT	46.04
BOILING POINT	78°C (1013 hPa)
DENSITY	0.79 @ 20°C
UN NUMBER	1170

### Specifications

ASSAY (BY GC, on anhydr.basis)	99.9 % min
COLOR (APHA)	10 max
ACIDITY AS CH <sub>3</sub> COOH	0.002% max
WATER (KF)	0.1% max
RESIDUE ON EVAPORATION	0.0005% max

### Transmission characteristics

WAVELENGTH (nm)	TRANSMISSION (% min)
210	35
240	85
260	98

Ultraviolet: (1 cm quartz cells versus deionised water)

### HPLC-Gradient elution test:

HIGHEST PEAK	
at 235 nm	0.005 AU max
at 254 nm	0.002 AU max

Filtered through 0.2µ PTFE. Bottled under inert gas



**HARMFUL**  
R11 S7,9,16

**HPLC GRADE**

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**HPLC RANGE** (page 1 of 3)

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## ETHYL ACETATE

CHEMICAL NAME	Ethyl Acetate, Ethyl Ethanoate, HPLC G
CAS NUMBER	141-78-6
EC NUMBER	205-500-4
MOLECULAR FORMULA	C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>
RELATIVE MOLECULAR WEIGHT	88.1
BOILING POINT	77°C (1013hPa)
DENSITY	0.902 @ 20°C
REFRACTIVE INDEX	1.3719
UN NUMBER	1173

### Specifications

ASSAY (BY GC)	99.80% min
ACIDITY AS CH <sub>3</sub> COOH	0.005 max mass %
APPEARANCE	Clear and free of suspended matter
COLOUR PT-CO	5 max
WATER	200 ppm max
RESIDUE ON EVAPORATION	20 ppm max

### Transmission characteristics

WAVELENGTH (nm)	TRANSMISSION (% min)
260	70
270	90
280	95
300	99

Ultraviolet: (1 cm quartz cells versus deionised water)



**HIGHLY FLAMMABLE IRRITANT**  
R11, 36, 66, 67 S9,16,26

**HPLC GRADE**

## METHANOL

CHEMICAL NAME	Methanol, HPLC Grade
CAS NUMBER	67-56-1
EC NUMBER	200-659-6
MOLECULAR FORMULA	CH <sub>3</sub> OH
RELATIVE MOLECULAR WEIGHT	32.04
BOILING POINT	64.6°C (1013 hPa)
DENSITY	0.7915 @ 20°C
REFRACTIVE INDEX	1.3288
UN NUMBER	1230

### Specifications

ASSAY (BY GC)	99.90 % min
ACIDITY AS CH <sub>3</sub> COOH	10 ppm max
ALKALINITY (AS NH <sub>3</sub> )	10 ppm max
APPEARANCE	Clear and free of suspended matter
WATER	200 ppm max
RESIDUE ON EVAPORATION	5 ppm max

### Transmission characteristics

WAVELENGTH (nm)	TRANSMISSION (% min)
210	65
220	75
230	90
240	98
250	99

Ultraviolet: (1 cm quartz cells versus deionised water)



**HIGHLY FLAMMABLE TOXIC**  
R11, 23/24/25, 39/23/24/25 S7, 16, 36/37, 45

**HPLC GRADE**

## METHANOL - S GRADIENT

CHEMICAL NAME	Methanol, HPLC Supra-Gradient
CAS NUMBER	67-56-1
EC NUMBER	200-659-6
MOLECULAR FORMULA	CH <sub>3</sub> OH
RELATIVE MOLECULAR WEIGHT	32.04
BOILING POINT	64.6°C (1013 hPa)
DENSITY	0.7915 @ 20°C
REFRACTIVE INDEX	1.3288
UN NUMBER	1230

### Specifications

ASSAY (BY GC)	99.95 % min
COLOR (APHA)	10 max
ACIDITY AS CH <sub>3</sub> COOH	0.002% max
WATER (KF)	0.03% max
RESIDUE ON EVAPORATION	0.0002% max

### Transmission characteristics

WAVELENGTH (nm)	TRANSMISSION (% min)
210	40
235	85
260	98

Ultraviolet: (1 cm quartz cells versus deionised water)

### LC-Gradient elution test

HIGHEST PEAK	
at 235 nm	0.002 AU max
at 254 nm	0.001 AU max

### Fluorescence as quinine

at 254 nm	1 ppb max
at 265 nm	0.5 ppb max



**HIGHLY FLAMMABLE TOXIC**  
R11, 23/24/25, 39/23/24/25 S7, 16, 36/37, 45

**HPLC GRADE**

## N-HEPTANE 96%

CHEMICAL NAME	n-Heptane 96%, HPLC Grade
CAS NUMBER	142-82-5
EC NUMBER	205-563-8
CHEMICAL FORMULA	C <sub>7</sub> H <sub>16</sub>
RELATIVE MOLECULAR WEIGHT	100.21
BOILING POINT	92 - 99°C (1013 hPa)
FLASH POINT	- 4°C
AUTOIGNITION TEMPERATURE	250°C
DENSITY	0.684 @ 20°C
REFRACTIVE INDEX	1.3876
UN NUMBER	1206

### Specifications

ASSAY (BY GC)	96 % min
COLOR (APHA)	10 max
ACIDITY AS CH <sub>3</sub> COOH	0.002 % max
WATER (KF)	0.01 % max
RESIDUE ON EVAPORATION	0.0005 % max

### Transmission characteristics

WAVELENGTH (nm)	TRANSMISSION (% min)
200	20
210	45
220	80
250	98

Ultraviolet: (1 cm quartz cells versus deionised water)

Filtered through 0.2µ PTFE. Bottled under inert gas



**HIGHLY FLAMMABLE HARMFUL DANGEROUS FOR ENVIRONMENT**  
R11,38,50/53,65,67 S9,16,29,33,60,61,62

**HPLC GRADE**

## N-HEXANE 96%

CHEMICAL NAME	n-Hexane 96%, HPLC Grade
CAS NUMBER	110-54-3 (n-hexane)
EC NUMBER	203-777-6
CHEMICAL FORMULA	CH <sub>2</sub> (CH <sub>2</sub> ) <sub>4</sub> CH <sub>3</sub> n-hexane
RELATIVE MOLECULAR WEIGHT	86.18
BOILING POINT	- 68°C (1013 hPa)
FLASH POINT	-22°C
DENSITY	225°C
UN NUMBER	1208

### Specifications

ASSAY (BY GC)	96 % min
COLOR (APHA)	10 max
ACIDITY AS CH <sub>3</sub> COOH	0.002 % max
WATER (KF)	0.005 % max
RESIDUE ON EVAPORATION	0.0003 % max

### Transmission characteristics

WAVELENGTH (nm)	TRANSMISSION (% min)
200	25
210	50
220	85
245	98

Ultraviolet: (1 cm quartz cells versus deionised water)

Filtered through 0.2µ PTFE. Bottled under inert gas



**HIGHLY FLAMMABLE HARMFUL DANGEROUS FOR ENVIRONMENT**  
R11,48/20,38,51/53,62,65,67 S9,16,29,33,36/37,61,62

**HPLC GRADE**

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**HPLC RANGE** (page 2 of 3)

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## PETROLEUM ETHER 40/60

CHEMICAL NAME	Petroleum Ether 40/60, HPLC G
CAS NUMBER	64742-49-0
EC NUMBER	265-151-9
BOILING RANGE	40 - 60 °C (1013hPa)
FLASH POINT	-30 °C
AUTOIGNITION TEMPERATURE	250 °C
UN NUMBER	1268

### Specifications

COLOUR (APHA)	10 max
ACIDITY AS CH <sub>3</sub> COOH	0.002 % max
WATER (KF)	0.005 % max
RESIDUE ON EVAPORATION	0.0003 % max

### Transmission characteristics

WAVELENGTH (nm)	TRANSMISSION (% min)
200	10
220	75
270	98

**Ultraviolet:** (1 cm quartz cells versus deionised water)



**HIGHLY FLAMMABLE HARMFUL DANGEROUS FOR ENVIRONMENT**  
R11,48/20,38,51/53,62,65,67 S9,16,29,33,36/37,61,62

**HPLC**GRADE

## PROPAN-2-OL

CHEMICAL NAME	Propan-2-ol, (Isopropanol, IPA), HPLC G
CAS NUMBER	67-63-0
EC NUMBER	200-661-7
MOLECULAR FORMULA	C <sub>3</sub> H <sub>8</sub> O
RELATIVE MOLECULAR WEIGHT	60.1
BOILING POINT	82.5 °C (1013 hPa)
DENSITY	0.785 @ 20 °C
REFRACTIVE INDEX	1.3772
UN NUMBER	1219

### Specifications

ASSAY (BY GC)	99.80 % min
ACIDITY AS CH <sub>3</sub> COOH	0.001 max mass %
APPEARANCE	Clear and free of suspended matter
WATER	1000 ppm max
RESIDUE ON EVAPORATION	10 ppm max

### Transmission characteristics

WAVELENGTH (nm)	TRANSMISSION (% min)
220	60
230	80
240	95
250	98
260	99

**Ultraviolet:** (1 cm quartz cells versus deionised water)



**HIGHLY FLAMMABLE IRRITANT**  
R11,36,67 S7,16,24/25,26

**HPLC**GRADE

## TETRAHYDROFURAN UNSTABILISED

CHEMICAL NAME	Tetrahydrofuran, unstabilised, HPLC G
CAS NUMBER	109-99-9
EC NUMBER	203-726-8
MOLECULAR FORMULA	C <sub>4</sub> H <sub>8</sub> O
RELATIVE MOLECULAR WEIGHT	72.11
INITIAL BOILING POINT	66 °C (1013 hPa)
DENSITY	0.89 @ 20 °C
UN NUMBER	2056

### Specifications

ASSAY (BY GC)	99.8 % min
COLOUR (APHA)	10 max
ACIDITY AS CH <sub>3</sub> COOH	0.003 % max
WATER (KF)	0.03 % max
RESIDUE ON EVAPORATION	0.0003 % max
PEROXIDE (AT BOTTLING)	0.01 % max

### Transmission characteristics

WAVELENGTH (nm)	TRANSMISSION (% min)
230	30
270	88
310	99

**Ultraviolet:** (1 cm quartz cells versus deionised water)

Filtered through 0.2µ PTFE. Bottled under inert gas



**HIGHLY FLAMMABLE IRRITANT**  
R11,19,36/37 S16,29,33

**HPLC**GRADE

## TOLUENE

CHEMICAL NAME	Toluene, Methylbenzene, Phenylmethane, HPLC Grade
CAS NUMBER	108-88-3
EC NUMBER	203-625-9
MOLECULAR FORMULA	C <sub>7</sub> H <sub>8</sub>
RELATIVE MOLECULAR WEIGHT	92.14
INITIAL BOILING POINT	110.6 °C (1013 hPa)
FLASH POINT	4 to 6 °C
DENSITY	0.867 @ 20 °C
REFRACTIVE INDEX	1.4967
UN NUMBER	1294

### Specifications

ASSAY (BY GC)	99.80 % min
COLOR (APHA)	15 max
ACIDITY AS CH <sub>3</sub> COOH	0.003 % max
WATER (KF)	0.01 % max
RESIDUE ON EVAPORATION	0.0003 % max

### Transmission characteristics

WAVELENGTH (nm)	TRANSMISSION (% min)
292	60
300	80
350	98

**Ultraviolet:** (1 cm quartz cells versus deionised water)

Filtered through 0.2µ PTFE. Bottled under inert gas



**HIGHLY FLAMMABLE HARMFUL**  
R11,38,48/20,63,65,67 S36/37,46,62

**HPLC**GRADE

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**HPLC** RANGE (page 3 of 3)

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## ACETONE

CHEMICAL NAME	Acetone, Analar Grade
CAS NUMBER	67-64-1
EC NUMBER	200-662-2
MOLECULAR FORMULA	C <sub>3</sub> H <sub>6</sub> O
RELATIVE MOLECULAR WEIGHT	58.08
BOILING POINT	56.2 °C (1013 hPa)
DENSITY	0.791 @ 20 °C
REFRACTIVE INDEX	1.3591
UN NUMBER	1090

### Specifications

ASSAY (BY GC):	99.80 % min
ACIDITY AS CH <sub>3</sub> COOH	20 ppm max
APPEARANCE	Clear and free of suspended matter
WATER	3000 ppm max
RESIDUE ON EVAPORATION	5 ppm max
METHANOL AND ETHANOL	200 ppm max
DAA	120 ppm max
BENZENE	0.8 ppm max
MEK	20 ppm max



**HIGHLY FLAMMABLE IRRITANT**  
R11.36.66.67 S9.16.26

ARGRADE

## ACETONITRILE

CHEMICAL NAME	Acetonitrile, (Methyl cyanide), Analar Grade
CAS NUMBER	75-05-8
EC NUMBER	200-835-2
MOLECULAR FORMULA	C <sub>2</sub> H <sub>3</sub> N
RELATIVE MOLECULAR WEIGHT	41.05
BOILING POINT	81.6 °C (1013 hPa)
DENSITY	0.782 @ 20 °C
REFRACTIVE INDEX	1.3442
UN NUMBER	1648

### Specifications

ASSAY (BY GC):	99.50 % min
ACIDITY AS CH <sub>3</sub> COOH	0.008 mEq/g max
APPEARANCE	Clear and free of suspended matter
WATER	0.10 % max
RESIDUE ON EVAPORATION	0.0010 % max



**HIGHLY FLAMMABLE HARMFUL**  
R11.20.21/22.36 S16.36/37

ARGRADE

## CYCLOHEXANE

CHEMICAL NAME	Cyclohexane, Analar Grade
CAS NUMBER	110-82-7
EC NUMBER	203-806-2
CHEMICAL FORMULA	C <sub>6</sub> H <sub>12</sub>
RELATIVE MOLECULAR WEIGHT	84.16
BOILING POINT	80.56 °C (1013 hPa)
FLASH POINT	-17 °C
DENSITY	0.778 @ 20 °C
REFRACTIVE INDEX	1.4264
UN NUMBER	1145

### Specifications

ASSAY (BY GC)	99.80 % min
APPEARANCE	Clear and free of suspended matter
WATER	0.02 % max
RESIDUE ON EVAPORATION	20 ppm max
BENZENE	100 ppm max
AROMATICS	150 ppm max
METHYLCYCLOHEXANE	200 ppm max
SULPHUR	1 ppm max
NITROGEN	1 ppm max
CHLORIDE	1 ppm max



**HIGHLY FLAMMABLE HARMFUL DANGEROUS FOR ENVIRONMENT**  
R11.38.50/53.65.67 S9.16.25.33.60.61.62

ARGRADE

## DIETHYL ETHER

CHEMICAL NAME	Diethyl Ether, DEE, Diethyl oxide, Analar Grade, Stabilised with 1ppm BHT
CAS NUMBER	60-29-7
EC NUMBER	200-467-2
MOLECULAR FORMULA	C <sub>4</sub> H <sub>10</sub> O
RELATIVE MOLECULAR WEIGHT	74.12
BOILING POINT	34 °C (1013 hPa)
FLASH POINT	-40 °C open cup.
AUTO-IGNITION TEMPERATURE	34 °C
DENSITY	0.7134
REFRACTIVE INDEX	1.3527
UN NUMBER	1155

### Specifications

ASSAY (BY GC)	99.5 min, mass %
APPEARANCE	Clear and free of suspended matter
WATER	0.05 max, mass %
PEROXIDE	Negative
TEST FOR ALDEHYDES & KETONES:	Negative



**HIGHLY FLAMMABLE HARMFUL**  
R11.36.66.67 S16.26.33

ARGRADE

## ETHYL ACETATE

CHEMICAL NAME	Ethyl Acetate, Ethyl Ethanoate, Analar Grade
CAS NUMBER	141-78-6
EC NUMBER	205-500-4
MOLECULAR FORMULA	C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>
RELATIVE MOLECULAR WEIGHT	88.11
BOILING POINT	77 °C (1013 hPa)
DENSITY	0.902 @ 20 °C
REFRACTIVE INDEX	1.3719
UN NUMBER	1173

### Specifications

ASSAY (BY GC)	99.80 % min
ACIDITY AS CH <sub>3</sub> COOH	0.005 max mass %
APPEARANCE	Clear and free of suspended matter
COLOUR PT-CO	5 max
WATER	500 ppm max
RESIDUE ON EVAPORATION	100 ppm max



**HIGHLY FLAMMABLE IRRITANT**  
R11.36.66.67 S16.26.33

ARGRADE

## METHANOL

CHEMICAL NAME	Methanol, Analar Gradee
CAS NUMBER	67-56-1
EC NUMBER	200-659-6
MOLECULAR FORMULA	CH <sub>3</sub> OH
RELATIVE MOLECULAR WEIGHT	32.04
BOILING POINT	64.5 °C (1013 hPa)
DENSITY	0.7915 @ 20 °C
REFRACTIVE INDEX	1.3288
UN NUMBER	1230

### Specifications

ASSAY (BY GC):	99.80 % min
ACIDITY AS CH <sub>3</sub> COOH	10 ppm max
APPEARANCE	Clear and free of suspended matter
WATER	1000 ppm max
RESIDUE ON EVAPORATION	10 ppm max



**HIGHLY FLAMMABLE TOXIC**  
R11.23/24/25.39/23/24/25 S7.16.36/37.45

ARGRADE

## METHYL ETHYL KETONE

CHEMICAL NAME	Methyl Ethyl Ketone, MEK, 2-Butanone, AR G
CAS NUMBER	78-93-3
EC NUMBER	201-159-0
CHEMICAL FORMULA	C <sub>5</sub> H <sub>10</sub> CO
RELATIVE MOLECULAR WEIGHT	72.11
BOILING POINT	79.6 °C (1013 hPa)
FLASH POINT	9 °C open cup
AUTO-IGNITION TEMPERATURE	515 °C
DENSITY	0.805 @ 20 °C
REFRACTIVE INDEX	1.378
UN NUMBER	1193

### Specifications

ASSAY (BY GC):	99.50 % min
ACIDITY AS CH <sub>3</sub> COOH	0.002 % max
APPEARANCE	Clear and free of suspended matter
WATER	1000 ppm max
RESIDUE ON EVAPORATION	10 ppm max



**HIGHLY FLAMMABLE IRRITANT**  
R11.36.66.67 S9.16

ARGRADE

## METHYL ISOBUTYL KETONE

CHEMICAL NAME	Methyl isobutyl ketone- Analar
CAS NUMBER	108-10-1
EC NUMBER	203-550-1
CHEMICAL FORMULA	C <sub>6</sub> H <sub>12</sub> O
RELATIVE MOLECULAR WEIGHT	100.16
BOILING POINT	117.4 °C
FLASH POINT	17 °C
AUTO-IGNITION TEMPERATURE	46 °C
DENSITY	0.801 g
REFRACTIVE INDEX	1.396
UN NUMBER	1245

### Specifications

ASSAY (BY GC):	≥ 99 %
ACIDITY AS CH <sub>3</sub> COOH	≤ 0.0002 meq/g
APPEARANCE	Clear and free of suspended matter
WATER	≤ 0.1 %
RESIDUE ON EVAPORATION	≤ 10 ppm



**HIGHLY FLAMMABLE HARMFUL**  
R11.20.36/37.66 S9.16.29

ARGRADE

## Carbon Group



**AR RANGE** (page 1 of 3)

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### n-BUTANOL

CHEMICAL NAME	n-Butanol, Butan-1-ol, AR Grade
CAS NUMBER	71-36-3
EC NUMBER	200-751-6
CHEMICAL FORMULA	C <sub>4</sub> H <sub>10</sub> O
RELATIVE MOLECULAR WEIGHT	74.12
BOILING POINT	117.7 °C (1013 hPa)
FLASH POINT	34 °C
AUTO-IGNITION TEMPERATURE	360 °C
DENSITY	0.810 @ 20 °C
REFRACTIVE INDEX	1.3993
UN NUMBER	1120

#### Specifications

ASSAY (BY GC)	99.00 % min
ACIDITY AS CH <sub>3</sub> COOH	0.001 % max
APPEARANCE	Clear and free of suspended matter
WATER	500 ppm max
RESIDUE ON EVAPORATION	50 ppm max



**HARMFUL**  
R10,22,37/38,41,67 S7/9,13,26,37/39,46

ARGRADE

### n-BUTYL ACETATE

CHEMICAL NAME	N-Butyl Acetate, butyl ethanoate, AR Grade
CAS NUMBER	123-86-4
EC NUMBER	204-658-1
MOLECULAR FORMULA	C <sub>8</sub> H <sub>16</sub> O <sub>2</sub>
RELATIVE MOLECULAR WEIGHT	116.16
BOILING POINT	126 °C (1013 hPa)
FLASH POINT	23 °C
DENSITY	0.882 @ 20 °C
REFRACTIVE INDEX	1.395
UN NUMBER	1123

#### Specifications

ASSAY (BY GC)	99.00 % min
ACIDITY AS CH <sub>3</sub> COOH	0.01 % max
APPEARANCE	Clear and free of suspended matter
WATER	1000 ppm max
RESIDUE ON EVAPORATION	50 ppm max

R10-66-67 S25

ARGRADE

### n-HEPTANE 95%

CHEMICAL NAME	n-Heptane 95%, Analar Grade
CAS NUMBER	142-82-5
EC NUMBER	205-563-8
CHEMICAL FORMULA	C <sub>7</sub> H <sub>16</sub>
RELATIVE MOLECULAR WEIGHT	100.21
BOILING RANGE	92 - 99 °C (1013 hPa)
FLASH POINT	-4 °C
AUTOIGNITION TEMPERATURE	250 °C
DENSITY	0.684 @ 20 °C
REFRACTIVE INDEX	1.3876
UN NUMBER	1206

#### Specifications

ASSAY (BY GC)	95.00 % min
ACIDITY AS CH <sub>3</sub> COOH	0.0003 meq/g
APPEARANCE	Clear and free of suspended matter
WATER	200 ppm max
RESIDUE ON EVAPORATION	10 ppm max



**HIGHLY FLAMMABLE HARMFUL DANGEROUS FOR ENVIRONMENT**  
R11,38,50/53,65,67 S9,16,29,33,60,61,62

ARGRADE

### n-HEPTANE 99%

CHEMICAL NAME	n-Heptane 99%, Analar Grade
CAS NUMBER	142-82-5
EC NUMBER	205-563-8
CHEMICAL FORMULA	C <sub>7</sub> H <sub>16</sub>
RELATIVE MOLECULAR WEIGHT	100.21
BOILING POINT	92 - 99 °C (1013 hPa)
FLASH POINT	-4 °C
AUTOIGNITION TEMPERATURE	250 °C
DENSITY	0.684 @ 20 °C
REFRACTIVE INDEX	1.3876
UN NUMBER	1206

#### Specifications

ASSAY (BY GC)	99.00 % min
ACIDITY AS CH <sub>3</sub> COOH	0.0003 meq/g
APPEARANCE	Clear and free of suspended matter
WATER	200 ppm max
RESIDUE ON EVAPORATION	10 ppm max



**HIGHLY FLAMMABLE HARMFUL DANGEROUS FOR ENVIRONMENT**  
R11,38,50/53,65,67 S9,16,33,60,61,62

ARGRADE

### n-HEXANE 95%

CHEMICAL NAME	n-Hexane 95%, Analar Grade
CAS NUMBER	110-54-3 (n-hexane)
EC NUMBER	203-777-6
CHEMICAL FORMULA	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>4</sub> CH <sub>3</sub> n-hexane
RELATIVE MOLECULAR WEIGHT	86.18
BOILING POINT	68 °C (1013 hPa)
FLASH POINT	-22 °C
AUTO-IGNITION TEMPERATURE	225 °C
UN NUMBER	1208

#### Specifications

ASSAY (BY GC)	95.00 % min
ACIDITY AS CH <sub>3</sub> COOH	0.0003 meq/g
APPEARANCE	Clear and free of suspended matter
WATER	200 ppm max
RESIDUE ON EVAPORATION	10 ppm max



**HIGHLY FLAMMABLE HARMFUL DANGEROUS FOR ENVIRONMENT**  
R11,40/20,38,51/53,62,65,67 S9,16,29,33,36/37,61,62

ARGRADE

### n-HEXANE 99%

CHEMICAL NAME	n-Hexane 99%, Analar Grade
CAS NUMBER	110-54-3 (n-hexane)
EC NUMBER	203-777-6
MOLECULAR FORMULA	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>4</sub> CH <sub>3</sub> n-hexane
RELATIVE MOLECULAR WEIGHT	86.18
BOILING POINT	68 °C (1013 hPa)
FLASH POINT	-22 °C
AUTO-IGNITION TEMPERATURE	225 °C
UN NUMBER	1208

#### Specifications

ASSAY (BY GC)	99.00 % min
ACIDITY AS CH <sub>3</sub> COOH	0.0003 meq/g
APPEARANCE	Clear and free of suspended matter
WATER	200 ppm max
RESIDUE ON EVAPORATION	10 ppm max



**HIGHLY FLAMMABLE HARMFUL DANGEROUS FOR ENVIRONMENT**  
R11,40/20,38,51/53,62,65,67 S9,16,29,33,36/37,61,62

ARGRADE

### n-PROPANOL

CHEMICAL NAME	N-Propanol, Propan-1-ol, AR Grade
CAS NUMBER	71-23-8
EC NUMBER	200-746-9
MOLECULAR FORMULA	C <sub>3</sub> H <sub>8</sub> O
RELATIVE MOLECULAR WEIGHT	60.1
BOILING RANGE	96.5 - 98 °C (1013 hPa)
FLASH POINT	15 °C
IGNITION TEMPERATURE	360 °C
DENSITY	0.8053 @ 20 °C
REFRACTIVE INDEX	1.3862
UN NUMBER	1274

#### Specifications

ASSAY (BY GC)	99.50 % min
ACIDITY AS CH <sub>3</sub> COOH	0.001 % max
APPEARANCE	Clear and free of suspended matter
WATER	0.10 % max
RESIDUE ON EVAPORATION	10 ppm max



**HIGHLY FLAMMABLE IRRITANT**  
R11,41,67 S7,16,24,26,39

ARGRADE

### PETROLEUM ETHER 40/60

CHEMICAL NAME	Petroleum Ether 40/60, Analar Grade
CAS NUMBER	64742-49-0
EC NUMBER	265-151-9
BOILING RANGE	60 - 80 °C (1013hPa)
FLASH POINT	-30 °C
AUTO-IGNITION TEMPERATURE	250 °C
UN NUMBER	1268

#### Specifications

ACIDITY AS CH <sub>3</sub> COOH	0.0005 meq/g
APPEARANCE	Clear and free of suspended matter
WATER	≤ 0.02 %
RESIDUE ON EVAPORATION	10 ppm max



**HIGHLY FLAMMABLE HARMFUL DANGEROUS FOR ENVIRONMENT**  
R11-38-51/53-65-67 S16-23-24-61-62

ARGRADE

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**AR RANGE** (page 2 of 3)

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## PETROLEUM ETHER 60/80

CHEMICAL NAME	Petroleum Ether 60/80, Analar Grade
CAS NUMBER	64742-49-0
EC NUMBER	265-151-9
BOILING RANGE	60 - 80 °C (1013hPa)
FLASH POINT	-30 °C
AUTO-IGNITION TEMPERATURE	250 °C
UN NUMBER	1268

### Specifications

ACIDITY AS CH <sub>3</sub> COOH	0.0005 meq/g
APPEARANCE	Clear and free of suspended matter
WATER	200 ppm max
RESIDUE ON EVAPORATION	10 ppm max



**HIGHLY FLAMMABLE HARMFUL DANGEROUS FOR ENVIRONMENT**  
R11-38/51/53-65-67 S16-23-24-61-62

ARGRADE

## PROPAN-2-OL

CHEMICAL NAME	Propan-2-ol, (Isopropanol, IPA), Analar Grade
CAS NUMBER	67-63-0
EC NUMBER	200-661-7
MOLECULAR FORMULA	C <sub>3</sub> H <sub>8</sub> O
RELATIVE MOLECULAR WEIGHT	60.1
BOILING POINT	82.5 °C (1013 hPa)
DENSITY	0.785 @ 20 °C
REFRACTIVE INDEX	1.3772
UN NUMBER	1219

### Specifications

ASSAY (BY GC)	99.70 % min
ACIDITY AS CH <sub>3</sub> COOH	0.001 % max
APPEARANCE	Clear and free of suspended matter
WATER	1000 ppm max
RESIDUE ON EVAPORATION	10 ppm max



**HIGHLY FLAMMABLE IRRITANT**  
R11,36,67 S7,16,24/25,26

ARGRADE

## TOLUENE

CHEMICAL NAME	Toluene, Methylbenzene, Phenylmethane, AR Grade
CAS NUMBER	108-88-3
EC NUMBER	203-625-9
MOLECULAR FORMULA	C <sub>7</sub> H <sub>8</sub>
RELATIVE MOLECULAR WEIGHT	92.14
INITIAL BOILING POINT	110.6 °C (1013 hPa)
FLASH POINT	4 to 6 °C
DENSITY	0.867 @ 20 °C
REFRACTIVE INDEX	1.4967
UN NUMBER	1294

### Specifications

ASSAY (BY GC)	99.50 % min
ACIDITY AS CH <sub>3</sub> COOH	0.0005 % max
APPEARANCE	Clear and free of suspended matter
WATER	300 ppm max
NON VOLATILE RESIDUE	10 ppm max
SULPHUR COMPOUNDS	Free of SH <sub>2</sub> and SO <sub>2</sub>
BENZENE	0.02 % max



**HIGHLY FLAMMABLE HARMFUL**  
R11,38,48/20,63,65,67 S36/37,46,62

ARGRADE

## XYLENE

CHEMICAL NAME	Xylene, Dimethyl benzene, AR Grade
CAS NUMBER	1330-20-7
EC NUMBER	215-535-7
MOLECULAR FORMULA	C <sub>8</sub> H <sub>10</sub>
RELATIVE MOLECULAR WEIGHT	106.16
BOILING RANGE	137 - 143 °C (1013 hPa)
FLASH POINT	24 °C
AUTOIGNITION TEMPERATURE	465 °C
DENSITY	0.86 @ 20 °C
REFRACTIVE INDEX	1.497
UN NUMBER	1307

### Specifications

ASSAY (BY GC)	98.00% min
ACIDITY AS CH <sub>3</sub> COOH	< 1 ppm
APPEARANCE	Clear and free of suspended matter
WATER	500 ppm max
RESIDUE ON EVAPORATION	20 ppm



**HARMFUL**  
R10,20/21,38 S25

ARGRADE

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**AR RANGE** (page 3 of 3)

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## ACETONE

CHEMICAL NAME	Acetone, GPR Grade
CAS NUMBER	67-64-1
EC NUMBER	200-662-2
MOLECULAR FORMULA	C <sub>3</sub> H <sub>6</sub> O
RELATIVE MOLECULAR WEIGHT	58.08
BOILING POINT	56.2°C (1013 hPa)
DENSITY	0.791 @ 20°C
REFRACTIVE INDEX	1.3591
UN NUMBER	1090

### Specifications

ASSAY (BY GC):	99.00 % min
ACIDITY AS CH <sub>3</sub> COOH	20 ppm max
APPEARANCE	Clear and free of suspended matter
WATER	5000 ppm max
RESIDUE ON EVAPORATION	50 ppm max



**HIGHLY FLAMMABLE IRRITANT**  
R11,36,66,67 S9,16,26

**GPRGRADE**

## ACETONITRILE

CHEMICAL NAME	Acetonitrile, (Methyl cyanide), GPR Grade
CAS NUMBER	75-05-8
EC NUMBER	200-835-2
MOLECULAR FORMULA	C <sub>2</sub> H <sub>3</sub> N
RELATIVE MOLECULAR WEIGHT	41.05
BOILING POINT	81.6°C (1013 hPa)
DENSITY	0.782 @ 20°C
REFRACTIVE INDEX	1.3442
UN NUMBER	1648

### Specifications

ASSAY (BY GC):	99.00 % min
ACIDITY AS CH <sub>3</sub> COOH	0.010 mEq/g max
APPEARANCE	Clear and free of suspended matter
WATER	0.30 % max
RESIDUE ON EVAPORATION	0.0050 % max



**HIGHLY FLAMMABLE HARMFUL**  
R11,20/21/22,36 S16,36/37

**GPRGRADE**

## CYCLOHEXANE

CHEMICAL NAME	Cyclohexane, GPR Grade
CAS NUMBER	110-82-7
EC NUMBER	203-806-2
MOLECULAR FORMULA	C <sub>6</sub> H <sub>12</sub>
RELATIVE MOLECULAR WEIGHT	84.16
BOILING POINT	80.56°C (1013 hPa)
FLASH POINT	-17°C
DENSITY	0.778 @ 20°C
REFRACTIVE INDEX	1.4264
UN NUMBER	1145

### Specifications

ASSAY (BY GC):	99.00 % min
APPEARANCE	Clear and free of suspended matter
WATER	1000 ppm max
RESIDUE ON EVAPORATION	20 ppm max
BENZENE	100 ppm max
AROMATICS	200 ppm max



**HIGHLY FLAMMABLE HARMFUL DANGEROUS FOR ENVIRONMENT**  
R11,38,50/53,65,67 S9,16,25,33,60,61,62

**GPRGRADE**

## ETHYL ACETATE, ETHYL ETHANOATE

CHEMICAL NAME	Ethyl Acetate, Ethyl Ethanoate, GPR Grade
CAS NUMBER	141-78-6
EC NUMBER	205-500-4
MOLECULAR FORMULA	C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>
RELATIVE MOLECULAR WEIGHT	88.11
BOILING POINT	77°C (1013 hPa)
DENSITY	0.902 @ 20°C
REFRACTIVE INDEX	1.3719
UN NUMBER	1173

### Specifications

ASSAY (BY GC):	99.00 % min
ACIDITY AS CH <sub>3</sub> COOH	0.010 max mass %
APPEARANCE	Clear and free of suspended matter
WATER	500 ppm max
RESIDUE ON EVAPORATION	500 ppm max



**HIGHLY FLAMMABLE IRRITANT**  
R11,36,66,67 S16,26,33

**GPRGRADE**

## METHANOL

CHEMICAL NAME	Methanol, GPR Grade
CAS NUMBER	67-56-1
EC NUMBER	200-659-6
MOLECULAR FORMULA	CH <sub>3</sub> OH
RELATIVE MOLECULAR WEIGHT	32.04
BOILING POINT	64.5°C (1013 hPa)
DENSITY	0.7915 @ 20°C
REFRACTIVE INDEX	1.3288
UN NUMBER	1250

### Specifications

ASSAY (BY GC):	99.00 % min
ACIDITY AS CH <sub>3</sub> COOH	30 ppm max
APPEARANCE	Clear and free of suspended matter
WATER	3000 ppm max
RESIDUE ON EVAPORATION	50 ppm max



**HIGHLY FLAMMABLE TOXIC**  
R11,23/24/25, 39/23/24/25 S7,16,36/37,45

**GPRGRADE**

## METHYL ETHYL KETONE

CHEMICAL NAME	Methyl Ethyl Ketone, MEK, 2-Butanone, GPR Grade
CAS NUMBER	78-93-3
EC NUMBER	201-159-0
MOLECULAR FORMULA	C <sub>5</sub> H <sub>10</sub> O
RELATIVE MOLECULAR WEIGHT	72.11
BOILING POINT	79.6°C (1013 hPa)
FLASH POINT	9°C open cup
AUTO-IGNITION TEMPERATURE	515°C
DENSITY	0.805 @ 20°C
REFRACTIVE INDEX	1.378
UN NUMBER	1193

### Specifications

ASSAY (BY GC):	99.00 % min
ACIDITY AS CH <sub>3</sub> COOH	0.01 % max
APPEARANCE	Clear and free of suspended matter
WATER	5000 ppm max
RESIDUE ON EVAPORATION	50 ppm max



**HIGHLY FLAMMABLE IRRITANT**  
R11,36,37,66,67 S2,9,16

**GPRGRADE**

## METHYL ISOBUTYL KETONE

CHEMICAL NAME	Methyl isobutyl ketone- GPR
CAS NUMBER	108-10-1
EC NUMBER	203-550-1
MOLECULAR FORMULA	C <sub>6</sub> H <sub>12</sub> O
RELATIVE MOLECULAR WEIGHT	100.16
BOILING POINT	117.4°C
FLASH POINT	17°C
AUTO-IGNITION TEMPERATURE	46°C
DENSITY	0.801 g
REFRACTIVE INDEX	1.396
UN NUMBER	1245

### Specifications

ASSAY (BY GC):	≥ 99 %
ACIDITY AS CH <sub>3</sub> COOH	≤ 0.0005 meq/g
APPEARANCE	Clear and free of suspended matter
WATER	≤ 0.2 %
RESIDUE ON EVAPORATION	≤ 50 ppm



**HIGHLY FLAMMABLE HARMFUL**  
R11,20,36/57,66 S9,16,29

**GPRGRADE**

## n-BUTANOL

CHEMICAL NAME	n-Butanol, Butan-1-ol, GPR Grade
CAS NUMBER	71-36-3
EC NUMBER	203-751-6
CHEMICAL FORMULA	C <sub>4</sub> H <sub>10</sub> O
RELATIVE MOLECULAR WEIGHT	74.12
BOILING POINT	117.7°C (1013 hPa)
FLASH POINT	34°C
AUTO-IGNITION TEMPERATURE	360°C
DENSITY	0.810 @ 20°C
REFRACTIVE INDEX	1.3993
UN NUMBER	1120

### Specifications

ASSAY (BY GC):	98.00 % min
ACIDITY AS CH <sub>3</sub> COOH	0.010 % max
APPEARANCE	Clear and free of suspended matter
WATER	2000 ppm max
RESIDUE ON EVAPORATION	50 ppm max
TOTAL CARBONYL	100 ppm max



**HIGHLY FLAMMABLE HARMFUL**  
R11,36,66,67 S16,26,33

**GPRGRADE**

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**GPR RANGE** (page 1 of 3)

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### n-BUTYL ACETATE

CHEMICAL NAME	N-Butyl Acetate, butyl ethanoate, GPR G
CAS NUMBER	123-86-4
EC NUMBER	204-658-1
CHEMICAL FORMULA	C <sub>8</sub> H <sub>16</sub> O <sub>2</sub>
RELATIVE MOLECULAR WEIGHT	116.16
BOILING POINT	126°C (1013 hPa)
DENSITY	0.882 @ 20°C
REFRACTIVE INDEX	1.395
UN NUMBER	1123
FLASH POINT	23°C

#### Specifications

ASSAY (BY GC):	98.00 % min
ACIDITY AS CH <sub>3</sub> COOH	0.1 % max
APPEARANCE	Clear and free of suspended matter
WATER	5000 ppm max
RESIDUE ON EVAPORATION	50 ppm max

R10,66.67 S25

**GPRGRADE**

### n-HEPTANE 95%

CHEMICAL NAME	n-Heptane 95%, GPR Grade
CAS NUMBER	142-82-5
EC NUMBER	205-563-8
CHEMICAL FORMULA	C <sub>7</sub> H <sub>16</sub>
RELATIVE MOLECULAR WEIGHT	100.21
BOILING POINT	92 - 99°C (1013 hPa)
FLASH POINT	- 4°C
AUTOIGNITION TEMPERATURE	250°C
DENSITY	0.684 @ 20°C
REFRACTIVE INDEX	1.3876
UN NUMBER	1206

#### Specifications

ASSAY (BY GC):	95.00 % min
ACIDITY AS CH <sub>3</sub> COOH	0.0005 meq/g
APPEARANCE	Clear and free of suspended matter
WATER	500 ppm max
RESIDUE ON EVAPORATION	10 ppm max



**HIGHLY FLAMMABLE HARMFUL DANGEROUS FOR ENVIRONMENT**  
R11,38,50/53,65,67 S9,16,29,33,60,61,62

**GPRGRADE**

### n-HEPTANE 99%

CHEMICAL NAME	n-Heptane 99%, GPR Grade
CAS NUMBER	142-82-5
EC NUMBER	205-563-8
CHEMICAL FORMULA	C <sub>7</sub> H <sub>16</sub>
RELATIVE MOLECULAR WEIGHT	100.21
BOILING POINT	92 - 99°C (1013 hPa)
FLASH POINT	- 4°C
AUTOIGNITION TEMPERATURE	250°C
DENSITY	0.684 @ 20°C
REFRACTIVE INDEX	1.3876
UN NUMBER	1206

#### Specifications

ASSAY (BY GC):	99.00 % min
ACIDITY AS CH <sub>3</sub> COOH	0.0005 meq/g
APPEARANCE	Clear and free of suspended matter
WATER	500 ppm max
RESIDUE ON EVAPORATION	50 ppm max



**HIGHLY FLAMMABLE HARMFUL DANGEROUS FOR ENVIRONMENT**  
R11,38,50/53,65,67 S9,16,29,33,60,61,62

**GPRGRADE**

### n-HEXANE 95%

CHEMICAL NAME	n-Hexane 95%, GPR Grade
CAS NUMBER	110-54-3 (n-hexane)
EC NUMBER	203-777-6
CHEMICAL FORMULA	CH <sub>2</sub> (CH <sub>2</sub> ) <sub>4</sub> CH <sub>3</sub> n-hexane
RELATIVE MOLECULAR WEIGHT	86.18
BOILING POINT	- 68°C (1013 hPa)
FLASH POINT	-22°C
AUTOIGNITION TEMPERATURE	225°C
UN NUMBER	1208

#### Specifications

ASSAY (BY GC):	95.00 % min
Acidity as CH <sub>3</sub> COOH	0.0005 meq/g
APPEARANCE	Clear and free of suspended matter
WATER	500 ppm max
RESIDUE ON EVAPORATION	50 ppm max



**HIGHLY FLAMMABLE HARMFUL DANGEROUS FOR ENVIRONMENT**  
R11,48/20,38,51/53,62,65,67 S9,16,29,33,36/37,61,62

**GPRGRADE**

### n-HEXANE 99%

CHEMICAL NAME	n-Hexane 99%, GPR Grade
CAS NUMBER	110-54-3 (n-hexane)
EC NUMBER	203-777-6
MOLECULAR FORMULA	CH <sub>2</sub> (CH <sub>2</sub> ) <sub>4</sub> CH <sub>3</sub> n-hexane
RELATIVE MOLECULAR WEIGHT	86.18
BOILING POINT	- 68°C (1013 hPa)
FLASH POINT	-22°C
AUTOIGNITION TEMPERATURE	225°C
UN NUMBER	1208

#### Specifications

ASSAY (BY GC):	99.00 % min
ACIDITY AS CH <sub>3</sub> COOH	0.0003 meq/g
APPEARANCE	Clear and free of suspended matter
WATER	500 ppm max
RESIDUE ON EVAPORATION	50 ppm max



**HIGHLY FLAMMABLE HARMFUL DANGEROUS FOR ENVIRONMENT**  
R11,48/20,38,51/53,62,65,67 S9,16,29,33,36/37,61,62

**GPRGRADE**

### n-PROPANOL

CHEMICAL NAME	N-Propanol, Propan-1-ol, GPR Grade
CAS NUMBER	71-23-8
EC NUMBER	200-746-9
MOLECULAR FORMULA	C <sub>3</sub> H <sub>8</sub> O
RELATIVE MOLECULAR WEIGHT	60.1
BOILING POINT	96.5 - 98°C (1013 hPa)
FLASH POINT	15°C
IGNITION TEMPERATURE	360°C
DENSITY	0.8053 @ 20°C
REFRACTIVE INDEX	1.3862
UN NUMBER	1274

#### Specifications

ASSAY (BY GC):	99.00 % min
ACIDITY AS CH <sub>3</sub> COOH	0.1 % max
APPEARANCE	Clear and free of suspended matter
WATER	0.50 % max
RESIDUE ON EVAPORATION	50 ppm max



**HIGHLY FLAMMABLE TOXIC**  
R11,41,67 S7,16,24,26,39

**GPRGRADE**

### PETROLEUM ETHER 40/60

CHEMICAL NAME	Petroleum Ether 40/60, GPR Grade
CAS NUMBER	64742-49-0
EC NUMBER	265-151-9
BOILING RANGE	40 - 60°C (1013 hPa)
FLASH POINT	-40°C
AUTO-IGNITION TEMPERATURE	250°C
UN NUMBER	1268

#### Specifications

ACIDITY AS CH <sub>3</sub> COOH	0.0005 meq/g
APPEARANCE	Clear and free of suspended matter
WATER	500 ppm max
RESIDUE ON EVAPORATION	10 ppm max



**HIGHLY FLAMMABLE HARMFUL DANGEROUS FOR ENVIRONMENT**  
R11,38,51/53,65,67 S9,16,29,33,61,62

**GPRGRADE**

### PETROLEUM ETHER 60/80

CHEMICAL NAME	Petroleum Ether 60/80, GPR Grade
CAS NUMBER	64742-49-0
EC NUMBER	265-151-9
BOILING RANGE	60 - 80°C (1013 hPa)
FLASH POINT	-30°C
AUTO-IGNITION TEMPERATURE	250°C
UN NUMBER	1268

#### Specifications

ACIDITY AS CH <sub>3</sub> COOH	0.0005 meq/g
APPEARANCE	Clear and free of suspended matter
WATER	500 ppm max
RESIDUE ON EVAPORATION	50 ppm max



**HIGHLY FLAMMABLE HARMFUL DANGEROUS FOR ENVIRONMENT**  
R11,38,51/53,65,67 S16,23,24,61,62

**GPRGRADE**

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**GPR RANGE** (page 2 of 3)

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## PROPAN-2-OL

CHEMICAL NAME	Propan-2-ol, (Isopropanol, IPA), GPR Grade
CAS NUMBER	67-63-0
EC NUMBER	200-661-7
MOLECULAR FORMULA	C <sub>3</sub> H <sub>8</sub> O
RELATIVE MOLECULAR WEIGHT	60.1
BOILING POINT	82.5°C (1013 hPa)
DENSITY	0.785 @ 20°C
REFRACTIVE INDEX	1.3772
UN NUMBER	1219

### Specifications

ASSAY (BY GC):	99.50 % min
ACIDITY AS CH <sub>3</sub> COOH	0.001 max mass %
APPEARANCE	Clear and free of suspended matter
WATER	2000 ppm max
RESIDUE ON EVAPORATION	50 ppm max



**HIGHLY FLAMMABLE IRRITANT**  
R11,36,67 S7,16,24/25,26

**GPRGRADE**

## TOLUENE

CHEMICAL NAME	Toluene, Methylbenzene, Phenylmethane, GPR G
CAS NUMBER	108-88-3
EC NUMBER	203-625-9
MOLECULAR FORMULA	C <sub>7</sub> H <sub>8</sub> CH <sub>3</sub>
RELATIVE MOLECULAR WEIGHT	92.14
INITIAL BOILING POINT	110.6°C (1013 hPa)
FLASH POINT	4 to 6°C
DENSITY	0.867 @ 20°C
REFRACTIVE INDEX	1.4967
UN NUMBER	1294

### Specifications

ASSAY (BY GC):	99.00 % min
ACIDITY AS CH <sub>3</sub> COOH	0.0010 % max
APPEARANCE	Clear and free of suspended matter
WATER	500 ppm max
NON VOLATILE RESIDUE	100 ppm max



**HIGHLY FLAMMABLE HARMFUL**  
R11,38,48/20,63,65,67 S36/37,46,62

**GPRGRADE**

## XYLENE

CHEMICAL NAME	Xylene, Dimethyl benzene, GPR Grade
CAS NUMBER	1330-20-7
EC NUMBER	215-535-7
CHEMICAL FORMULA	C <sub>6</sub> H <sub>4</sub> C <sub>2</sub> H <sub>6</sub>
RELATIVE MOLECULAR WEIGHT	106.16
BOILING POINT	137 - 143°C (1013 hPa)
FLASH POINT	24°C
IGNITION TEMPERATURE	465°C
DENSITY	0.86 @ 20°C
REFRACTIVE INDEX	1.497
UN NUMBER	1307

### Specifications

ASSAY (BY GC):	98.00% min
ACIDITY AS CH <sub>3</sub> COOH	< 10 ppm
APPEARANCE	Clear and free of suspended matter
WATER	1000 ppm max
RESIDUE ON EVAPORATION	100 ppm



**HARMFUL**  
R10,20/21,38 S25

**GPRGRADE**

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### GPR RANGE (page 3 of 3)

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## ACETONITRILE ANHYDROUS 10PPM

CHEMICAL NAME	Acetonitrile Anhydrous 10ppm
CAS NUMBER	75-05-8
EC NUMBER	200-835-2
MOLECULAR FORMULA	C <sub>2</sub> H <sub>3</sub> N
RELATIVE MOLECULAR WEIGHT	41.05
BOILING POINT	81.6°C (1013 hPa)
DENSITY	0.782 @ 20°C
REFRACTIVE INDEX	1.3442
UN NUMBER	1648

### Specifications

ASSAY (GC, ON ANHYDR.BASIS)	99.9 % min
COLOR (APHA)	10 max
ACIDITY AS CH <sub>3</sub> COOH	0.002% max
WATER (KF)	10 ppm max
RESIDUE ON EVAPORATION	0.0005% max
SUBSTANCES REDUCING PERMANGANATE	passes test



**HIGHLY FLAMMABLE IRRITANT**  
R11.20/21/22.36 S16.36/37

**ANHYDROUS**GRADE

## ACETONITRILE ANHYDROUS 30PPM

CHEMICAL NAME	Acetonitrile Anhydrous 30ppm
CAS NUMBER	75-05-8
EC NUMBER	200-835-2
MOLECULAR FORMULA	C <sub>2</sub> H <sub>3</sub> N
RELATIVE MOLECULAR WEIGHT	41.05
BOILING POINT	81.6°C (1013 hPa)
DENSITY	0.782 @ 20°C
REFRACTIVE INDEX	1.3442
UN NUMBER	1648

### Specifications

ASSAY (GC, ON ANHYDR.BASIS)	99.9 % min
COLOR (APHA)	10 max
ACIDITY AS CH <sub>3</sub> COOH	0.002% max
WATER (KF)	30 ppm max
RESIDUE ON EVAPORATION	0.0003% max
SUBSTANCES REDUCING PERMANGANATE	passes test



**HIGHLY FLAMMABLE IRRITANT**  
R11.20/21/22.36 S16.36/37

**ANHYDROUS**GRADE

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**ANHYDROUS RANGE** (page 1 of 1)

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## HYDROCHLORIC ACID 0.1N

CHEMICAL NAME	Hydrochloric Acid 0.1N AR Grade
CAS NUMBER	7647-01-0
EC NUMBER	231-595-7
MOLECULAR FORMULA	HCl
RELATIVE MOLECULAR WEIGHT	36.46 g/mol
DENSITY	1.174 - 1.180 g/cm <sup>3</sup>

### Specifications

Appearance	Clear, fuming liquid
Assay	3.64609 g/l +/- 0.004 g/l
Normality @ 20 °C	0.1000 +/- 0.001
Colour	10 Hazen Units maximum
Non-volatile Matter	10 ppm max
Free Chlorine (Cl <sub>2</sub> )	2 ppm max
Sulphate (SO <sub>4</sub> )	5 ppm max
Sulphite (SO <sub>3</sub> )	1 ppm max
Ammonium (NH <sub>4</sub> )	1 ppm max
Aluminium (Al)	0.5 ppm max
Arsenic (As)	0.02 ppm max
Barium (Ba)	0.2 ppm max
Cadmium (Cd)	0.05 ppm max
Calcium (Ca)	1 ppm max
Cobalt (Co)	0.01 ppm max
Copper (Cu)	0.02 ppm max
Iron (Fe)	0.5 ppm max
Lead (Pb)	0.05 ppm max
Magnesium (Mg)	0.5 ppm max
Manganese (Mn)	0.02 ppm max
Molybdenum (Mo)	0.02 ppm max
Nickel (Ni)	0.05 ppm max
Potassium (K)	0.5 ppm max
Sodium (Na)	1 ppm max
Strontium (Sr)	0.02 ppm max
Zinc (Zn)	0.2 ppm max

## ACIDS/BASES

## HYDROCHLORIC ACID 0.5N

CHEMICAL NAME	Hydrochloric Acid 0.5N AR Grade
CAS NUMBER	7647-01-0
EC NUMBER	231-595-7
MOLECULAR FORMULA	HCl
RELATIVE MOLECULAR WEIGHT	36.46 g/mol

### Specifications

Appearance	Clear, fuming liquid
Assay	18.2304 g/l +/- 0.02 g/l
Normality @ 20 °C	0.5000 +/- 0.001
Colour	10 Hazen Units maximum
Non-volatile Matter	10 ppm max
Free Chlorine (Cl <sub>2</sub> )	2 ppm max
Sulphate (SO <sub>4</sub> )	5 ppm max
Sulphite (SO <sub>3</sub> )	1 ppm max
Ammonium (NH <sub>4</sub> )	1 ppm max
Aluminium (Al)	0.5 ppm max
Arsenic (As)	0.02 ppm max
Barium (Ba)	0.2 ppm max
Cadmium (Cd)	0.05 ppm max
Calcium (Ca)	1 ppm max
Cobalt (Co)	0.01 ppm max
Copper (Cu)	0.02 ppm max
Iron (Fe)	0.5 ppm max
Lead (Pb)	0.05 ppm max
Magnesium (Mg)	0.5 ppm max
Manganese (Mn)	0.02 ppm max
Molybdenum (Mo)	0.02 ppm max
Nickel (Ni)	0.05 ppm max
Potassium (K)	0.5 ppm max
Sodium (Na)	1 ppm max
Strontium (Sr)	0.02 ppm max
Zinc (Zn)	0.2 ppm max



**CORROSIVE**  
R34-37 S26-45

## ACIDS/BASES

## HYDROCHLORIC ACID 1.0N

CHEMICAL NAME	Hydrochloric Acid 1.0N AR Grade
CAS NUMBER	7647-01-0
EC NUMBER	231-595-7
MOLECULAR FORMULA	HCl
RELATIVE MOLECULAR WEIGHT	36.46 g/mol

### Specifications

Appearance	Clear, fuming liquid
Assay	36.4609 g/l +/- 0.04 g/l
Normality @ 20 °C	1.0000 +/- 0.001
Colour	10 Hazen Units maximum
Non-volatile Matter	10 ppm max
Free Chlorine (Cl <sub>2</sub> )	2 ppm max
Sulphate (SO <sub>4</sub> )	5 ppm max
Sulphite (SO <sub>3</sub> )	1 ppm max
Ammonium (NH <sub>4</sub> )	1 ppm max
Aluminium (Al)	0.5 ppm max
Arsenic (As)	0.02 ppm max
Barium (Ba)	0.2 ppm max
Cadmium (Cd)	0.05 ppm max
Calcium (Ca)	1 ppm max
Cobalt (Co)	0.01 ppm max
Copper (Cu)	0.02 ppm max
Iron (Fe)	0.5 ppm max
Lead (Pb)	0.05 ppm max
Magnesium (Mg)	0.5 ppm max
Manganese (Mn)	0.02 ppm max
Molybdenum (Mo)	0.02 ppm max
Nickel (Ni)	0.05 ppm max
Potassium (K)	0.5 ppm max
Sodium (Na)	1 ppm max
Strontium (Sr)	0.02 ppm max
Zinc (Zn)	0.2 ppm max



**CORROSIVE**  
R34-37 S26-45

## ACIDS/BASES

## SODIUM HYDROXIDE 0.1N

CHEMICAL NAME	Sodium Hydroxide 0.1N AR Grade
CAS NUMBER	1310-73-2
EC NUMBER	215-185-5
MOLECULAR FORMULA	NaOH
RELATIVE MOLECULAR WEIGHT	40.00

### Specifications

Appearance	Clear & Colourless
Assay	3.99971g/l +/- 0.004 g/l
Normality @ 20 °C	0.1000 +/- 0.001
Carbonate (as Na <sub>2</sub> CO <sub>3</sub> )	1000 ppm max
Chloride (Cl)	5 ppm max
Phosphate (PO <sub>4</sub> )	5 ppm max
Sulphate (SO <sub>4</sub> )	10 ppm max
Aluminium (Al)	5 ppm max
Arsenic (As)	1 ppm max
Calcium (Ca)	5 ppm max
Copper (Cu)	2 ppm max
Lead (Pb)	5 ppm max
Iron (Fe)	5 ppm max
Magnesium (Mg)	5 ppm max
Potassium (K)	500 ppm max
Zinc (Zn)	10 ppm max

## ACIDS/BASES

## SODIUM HYDROXIDE 0.5N

CHEMICAL NAME	Sodium Hydroxide 0.5N AR Grade
CAS NUMBER	1310-73-2
EC NUMBER	215-185-5
MOLECULAR FORMULA	NaOH
RELATIVE MOLECULAR WEIGHT	40.00

### Specifications

Appearance	Clear & Colourless
Assay	19.9985 g/l +/- 0.002 g/l
Normality @ 20 °C	0.5000 +/- 0.001
Carbonate (as Na <sub>2</sub> CO <sub>3</sub> )	1000 ppm max
Chloride (Cl)	5 ppm max
Phosphate (PO <sub>4</sub> )	5 ppm max
Sulphate (SO <sub>4</sub> )	10 ppm max
Aluminium (Al)	5 ppm max
Arsenic (As)	1 ppm max
Calcium (Ca)	5 ppm max
Copper (Cu)	2 ppm max
Lead (Pb)	5 ppm max
Iron (Fe)	5 ppm max
Magnesium (Mg)	5 ppm max
Potassium (K)	500 ppm max
Zinc (Zn)	10 ppm max



**CORROSIVE**  
R35 S26-37/39-45

## ACIDS/BASES

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## ACIDS/BASES (page 1 of 3)

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## SODIUM HYDROXIDE 1.0N

CHEMICAL NAME	Sodium Hydroxide 1.0N AR Grade
CAS NUMBER	1310-73-2
EC NUMBER	215-185-5
MOLECULAR FORMULA	NaOH
RELATIVE MOLECULAR WEIGHT	40.00

### Specifications

Appearance	Clear & Colourless
Assay	39.9971 g/l +/- 0.004g/l
Normality @ 20 °C	1.000 +/- 0.001
Carbonate (as Na <sub>2</sub> CO <sub>3</sub> )	1000 ppm max
Chloride (Cl)	5 ppm max
Phosphate (PO <sub>4</sub> )	5 ppm max
Sulphate (SO <sub>4</sub> )	10 ppm max
Aluminium (Al)	5 ppm max
Arsenic (As)	1 ppm max
Calcium (Ca)	5 ppm max
Copper (Cu)	2 ppm max
Lead (Pb)	5 ppm max
Iron (Fe)	5 ppm max
Magnesium (Mg)	5 ppm max
Potassium (K)	500 ppm max
Zinc (Zn)	10 ppm max



**CORROSIVE**  
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**ACIDS/BASES**

## SODIUM THIOSULPHATE 0.1N

CHEMICAL NAME	Sodium Thiosulphate 0.1N AR Grade
CAS NUMBER	7772-98-7
EC NUMBER	231-867-5
MOLECULAR FORMULA	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>
RELATIVE MOLECULAR WEIGHT	158.1

### Specifications

Appearance	Clear and colourless liquid. Free from visible impurities
Assay NA <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ·5H <sub>2</sub> O	24.81738 g/l +/- 0.025 g/l
Normality @ 20 °C	0.1000 +/- 0.001
Chloride (Cl)	0.2 ug/g maximum
Nitrate (NO <sub>3</sub> )	0.2 ug/g maximum
Arsenic (As)	0.05 ug/g maximum
Barium (Ba)	0.05 ug/g maximum
Cadmium (Cd)	0.05 ug/g maximum
Calcium (Ca)	1 ug/g maximum
Chromium (Cr)	0.1 ug/g maximum
Cobalt (Co)	0.02 ug/g maximum
Copper (Cu)	0.02 ug/g maximum
Iron (Fe)	1 ug/g maximum
Lead (Pb)	0.05 ug/g maximum
Magnesium (Mg)	0.5 ug/g maximum
Manganese (Mn)	0.02 ug/g maximum
Molybdenum (Mo)	0.05 ug/g maximum
Nickel (Ni)	0.05 ug/g maximum
Potassium (K)	0.5 ug/g maximum
Selenium (Se)	1 ug/g maximum
Non-volatile matter	2 ug/g maximum

**ACIDS/BASES**

## SODIUM THIOSULPHATE 0.5N

CHEMICAL NAME	Sodium Thiosulphate 0.5N AR Grade
CAS NUMBER	7772-98-7
EC NUMBER	231-867-5
MOLECULAR FORMULA	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>
RELATIVE MOLECULAR WEIGHT	158.1

### Specifications

Appearance	Clear and colourless liquid. Free from visible impurities
Assay NA <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ·5H <sub>2</sub> O	124.0869 g/l +/- 0.0125 g/l
Normality @ 20 °C	0.5000 +/- 0.001
Chloride (Cl)	0.2 ug/g maximum
Nitrate (NO <sub>3</sub> )	0.2 ug/g maximum
Arsenic (As)	0.05 ug/g maximum
Barium (Ba)	0.05 ug/g maximum
Cadmium (Cd)	0.05 ug/g maximum
Calcium (Ca)	1 ug/g maximum
Chromium (Cr)	0.1 ug/g maximum
Cobalt (Co)	0.02 ug/g maximum
Copper (Cu)	0.02 ug/g maximum
Iron (Fe)	1 ug/g maximum
Lead (Pb)	0.05 ug/g maximum
Magnesium (Mg)	0.5 ug/g maximum
Manganese (Mn)	0.02 ug/g maximum
Molybdenum (Mo)	0.05 ug/g maximum
Nickel (Ni)	0.05 ug/g maximum
Potassium (K)	0.5 ug/g maximum
Selenium (Se)	1 ug/g maximum
Non-volatile matter	2 ug/g maximum

S 24/25

**ACIDS/BASES**

## SODIUM THIOSULPHATE 1.0N

CHEMICAL NAME	Sodium Thiosulphate 1.0N AR Grade
CAS NUMBER	7772-98-7
EC NUMBER	231-867-5
MOLECULAR FORMULA	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>
RELATIVE MOLECULAR WEIGHT	158.1

### Specifications

Appearance	Clear and colourless liquid. Free from visible impurities
Assay NA <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ·5H <sub>2</sub> O	24.81738 g/l +/- 0.25 g/l
Normality @ 20 °C	1.0000 +/- 0.001
Chloride (Cl)	0.2 ug/g maximum
Nitrate (NO <sub>3</sub> )	0.2 ug/g maximum
Arsenic (As)	0.05 ug/g maximum
Barium (Ba)	0.05 ug/g maximum
Cadmium (Cd)	0.05 ug/g maximum
Calcium (Ca)	1 ug/g maximum
Chromium (Cr)	0.1 ug/g maximum
Cobalt (Co)	0.02 ug/g maximum
Copper (Cu)	0.02 ug/g maximum
Iron (Fe)	1 ug/g maximum
Lead (Pb)	0.05 ug/g maximum
Magnesium (Mg)	0.5 ug/g maximum
Manganese (Mn)	0.02 ug/g maximum
Molybdenum (Mo)	0.05 ug/g maximum
Nickel (Ni)	0.05 ug/g maximum
Potassium (K)	0.5 ug/g maximum
Selenium (Se)	1 ug/g maximum
Non-volatile matter	2 ug/g maximum

S 24/25

**ACIDS/BASES**

## SULPHURIC ACID 0.1N

CHEMICAL NAME	Sulphuric Acid 0.1N AR Grade
CAS NUMBER	7664-93-9
EC NUMBER	231-639-5
MOLECULAR FORMULA	H <sub>2</sub> SO <sub>4</sub>
RELATIVE MOLECULAR WEIGHT	98.08

### Specifications

Appearance	Clear and colourless liquid
Assay	4.90367 g/l +/- 0.005 g/l
Normality @ 20 °C	0.1000 +/- 0.001
Ammonia (NH <sub>3</sub> )	2 ug/g maximum
Chloride (Cl)	0.2 ug/g maximum
Nitrate (NO <sub>3</sub> )	0.2 ug/g maximum
Arsenic (As)	0.05 ug/g maximum
Barium (Ba)	0.05 ug/g maximum
Cadmium (Cd)	0.05 ug/g maximum
Calcium (Ca)	1 ug/g maximum
Chromium (Cr)	0.1 ug/g maximum
Cobalt (Co)	0.02 ug/g maximum
Copper (Cu)	0.02 ug/g maximum
Iron (Fe)	1 ug/g maximum
Lead (Pb)	0.05 ug/g maximum
Magnesium (Mg)	0.5 ug/g maximum
Manganese (Mn)	0.02 ug/g maximum
Molybdenum (Mo)	0.05 ug/g maximum
Nickel (Ni)	0.05 ug/g maximum
Potassium (K)	0.5 ug/g maximum
Selenium (Se)	1 ug/g maximum
Sodium	5 ug/g maximum
Non-volatile matter	20 ug/g maximum
Reducing agents (O)	1 ug/g maximum

**ACIDS/BASES**

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**ACIDS/BASES** (page 2 of 3)

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## SULPHURIC ACID 0.5N

CHEMICAL NAME	Sulphuric Acid 0.5N AR Grade
CAS NUMBER	7664-93-9
EC NUMBER	231-639-5
MOLECULAR FORMULA	H <sub>2</sub> SO <sub>4</sub>
RELATIVE MOLECULAR WEIGHT	98.08

### Specifications

Appearance	Clear and colourless liquid
Assay	24.0183 g/l +/- 0.005 g/l
Normality @ 20°C	0.5000 +/- 0.001
Ammonia (NH <sub>3</sub> )	2 ug/g maximum
Chloride (Cl)	0.2 ug/g maximum
Nitrate (NO <sub>3</sub> )	0.2 ug/g maximum
Arsenic (As)	0.05 ug/g maximum
Barium (Ba)	0.05 ug/g maximum
Cadmium (Cd)	0.05 ug/g maximum
Calcium (Ca)	1 ug/g maximum
Chromium (Cr)	0.1 ug/g maximum
Cobalt (Co)	0.02 ug/g maximum
Copper (Cu)	0.02 ug/g maximum
Iron (Fe)	1 ug/g maximum
Lead (Pb)	0.05 ug/g maximum
Magnesium (Mg)	0.5 ug/g maximum
Manganese (Mn)	0.02 ug/g maximum
Molybdenum (Mo)	0.05 ug/g maximum
Nickel (Ni)	0.05 ug/g maximum
Potassium (K)	0.5 ug/g maximum
Selenium (Se)	1 ug/g maximum
Sodium	5 ug/g maximum
Non-volatile matter	20 ug/g maximum
Reducing agents (O)	1 ug/g maximum



**IRRITANT**  
R35 S26/30/45

**ACIDS/BASES**

## SULPHURIC ACID 1.0N

CHEMICAL NAME	Sulphuric Acid 1.0N AR Grade
CAS NUMBER	7664-93-9
EC NUMBER	231-639-5
MOLECULAR FORMULA	H <sub>2</sub> SO <sub>4</sub>
RELATIVE MOLECULAR WEIGHT	98.08

### Specifications

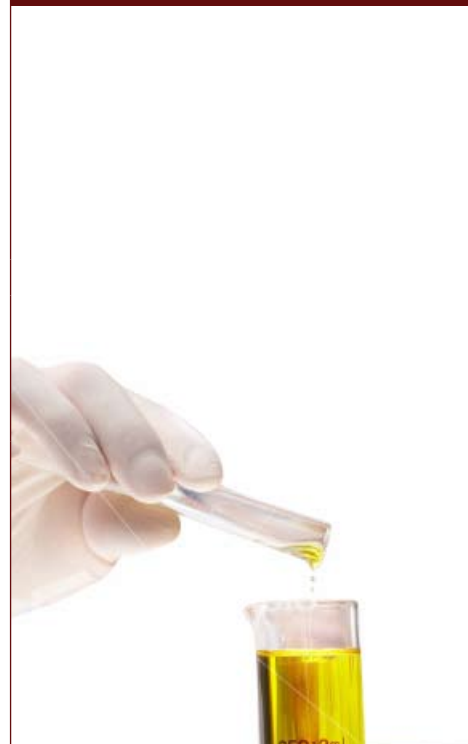
Appearance	Clear and colourless liquid
Assay	49.0367 g/l +/- 0.05 g/l
Normality @ 20°C	1.0000 +/- 0.001
Ammonia (NH <sub>3</sub> )	2 ug/g maximum
Chloride (Cl)	0.2 ug/g maximum
Nitrate (NO <sub>3</sub> )	0.2 ug/g maximum
Arsenic (As)	0.05 ug/g maximum
Barium (Ba)	0.05 ug/g maximum
Cadmium (Cd)	0.05 ug/g maximum
Calcium (Ca)	1 ug/g maximum
Chromium (Cr)	0.1 ug/g maximum
Cobalt (Co)	0.02 ug/g maximum
Copper (Cu)	0.02 ug/g maximum
Iron (Fe)	1 ug/g maximum
Lead (Pb)	0.05 ug/g maximum
Magnesium (Mg)	0.5 ug/g maximum
Manganese (Mn)	0.02 ug/g maximum
Molybdenum (Mo)	0.05 ug/g maximum
Nickel (Ni)	0.05 ug/g maximum
Potassium (K)	0.5 ug/g maximum
Selenium (Se)	1 ug/g maximum
Sodium	5 ug/g maximum
Non-volatile matter	20 ug/g maximum
Reducing agents (O)	1 ug/g maximum



**IRRITANT**  
R35 S26/30/45

**ACIDS/BASES**

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## WATER

CHEMICAL NAME	Water, Deionised
CAS NUMBER	7732-18-5
EC NUMBER	231-791-2
MOLECULAR FORMULA	H <sub>2</sub> O
RELATIVE MOLECULAR WEIGHT	18.02
BOILING POINT	100° C (1013 hPa)
DENSITY	1.000 @ 20° C
REFRACTIVE INDEX	1.3333
UN NUMBER	n/a

### Specifications

CONDUCTIVITY	10 µS/cm max
APPEARANCE	Clear and free of suspended matter
RESIDUE ON EVAPORATION	0.050%

WATERDEIONISED

## WATER

CHEMICAL NAME	Water, HPLC Grade
CAS NUMBER	7732-18-5
EC NUMBER	231-791-2
MOLECULAR FORMULA	H <sub>2</sub> O
RELATIVE MOLECULAR WEIGHT	18.02
BOILING POINT	100° C (1013 hPa)
DENSITY	1.000 @ 20° C
REFRACTIVE INDEX	1.3333
UN NUMBER	n/a

### Specifications

CONDUCTIVITY	2 µS/cm max
APPEARANCE	Clear and free of suspended matter
RESIDUE ON EVAPORATION	0.001%
FILTRATION	Pass (0.2 µm)

WATERHPLCGRADE

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WATER (page 1 of 1)

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PRODUCT	PRODUCT CODE
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### SOLVENTS

Acetone HPLC Acetone AR Acetone GPR	ACETHPLC ACETAR ACETGPR
Acetonitrile 10ppm Anhydrous Acetonitrile 30ppm Anhydrous Acetonitrile HPLC Acetonitrile AR Acetonitrile GPR	ACETO10AHY ACETO30AHY ACETOHPLC ACETOAR ACETOGPR
Cyclohexane HPLC Cyclohexane AR Cyclohexane GPR	CYCLOHPLC CYCLOAR CYCLOGPR
Diethyl Ether	DIETAR
Ethyl Acetate HPLC Ethyl Acetate AR Ethyl Acetate GPR	ETACHPLC ETACAR ETACGPR
Methanol HPLC Methanol AR Methanol GPR	METHHPLC METHAR METHGPR
Methyl Ethyl Ketone AR Methyl Ethyl Ketone GPR	MEKAR MEKGPR
Methyl isobutyl ketone AR Methyl isobutyl ketone GPR	MIKAR MIKGPR
n-Butanol AR n-Butanol GPR	NBUTAR NBUTGPR
n-Butyl Acetate AR n-Butyl Acetate GPR	NBACAR NBACGPR
n-Heptane 99% AR n-Heptane 99% GPR n-Heptane 96% HPLC n-Heptane 95% AR n-Heptane 95% GPR	NHEP99AR NHEP99GPR NHEP96HPLC NHEP95AR NHEP95GPR
n-Hexane 99% AR n-Hexane 99% GPR n-Hexane 96% HPLC n-Hexane 95% AR n-Hexane 95% GPR	NHEX99AR NHEX99GPR NHEX96HPLC NHEX95AR NHEX95GPR
n-Propanol AR n-Propanol GPR	NPROAR NPROGPR
Petroleum Ether 40/60 HPLC Petroleum Ether 40/60 AR Petroleum Ether 40/60 GPR	PE4060HPLC PE4060AR PE4060GPR
Petroleum Ether 60/80 AR Petroleum Ether 60/80 GPR	PE6080AR PE6080GPR
Propan-2-ol HPLC Propan-2-ol AR Propan-2-ol GPR	PROPHPLC PROPAR PROPGPR
Tetrahydrofuran HPLC	TETRHPLC
Toluene HPLC Toluene AR Toluene GPR	TOLUHPLC TOLUAR TOLUGPR
Xylene AR Xylene GPR	XYLEAR XYLEGPR

PRODUCT	PRODUCT CODE
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### WATER

Water Deionised Water HPLC	WATER 02 WATERHPLC
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### ACIDS AND BASES

Acetic Acid Citric Acid	ACETIC ACID 5-100% CITRIC ACID 5-50%
Hydrochloric Acid 0.1N Hydrochloric Acid 0.5N Hydrochloric Acid 1.0N	HCL0.1N HCL0.5N HCL1.0N
Hydrochloric Acid	HYDROCHLORIC ACID 5-35%
Nitric Acid Phosphoric Acid Sodium Hydroxide	NITRIC ACID 5-50% PHOSPHORIC ACID 5-85% SODIUM HYDROXIDE 5-50%
Sodium Hydroxide 0.1N Sodium Hydroxide 0.5N Sodium Hydroxide 1.0N	SODHYD0.1N SODHYD0.5N SODHYD1.0N
Sodium Hypochlorite Sodium Thiosulphate 0.1N Sodium Thiosulphate 0.5N Sodium Thiosulphate 1.0N	SODIUM HYPOCHLORITE 5-14% SODTHIO0.1N SODTHIO0.5N SODTHIO1.0N
Sulphuric Acid Sulphuric Acid 0.1N Sulphuric Acid 0.5N Sulphuric Acid 1.0N	SULPHURIC ACID 5-96% SULP0.1N SULP0.5N SULP1.0N

When placing orders please use the product codes above

### Carbon Group



### PRODUCT RANGE SPECIFICATIONS

For further information please visit [www.carbon.ie](http://www.carbon.ie) or contact our sales team

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