

Biosolve



SMALL Chiral BUILDING
BLOCKS



Biosolve

Asymmetric syntheses often use starting products derived from natural well-defined chiral sources.

Some of these syntheses may require small chiral building blocks or their functionalized derivatives.

For over two decades now, Biosolve has been involved in multi-step syntheses demanding chiral control and for years has been producing highly purified small chiral molecules as reliable tools for the synthetic chemist.

Below is a list containing a selection of such small building blocks produced under strict standard procedures and fully analyzed, including optical purity, TLC, HPLC, GC, Mass spectroscopy, NMR spectroscopy, Water content...

For pharmaceutical-oriented industries and depending on the products and quantities demanded, we can provide main impurity profile analysis, heavy metal analysis and volatile solvents headspace analysis.

Biosolve offers custom synthesis services.

Products are available from gram to multi-kilo scale.

Please ask for more information about this list and other related small chiral molecules.

For convenience, products are listed mainly using their trivial names.



SMALL Chiral BUILDING BLOCKS

Glycerol
derivatives

New derivatives
of D-Threose

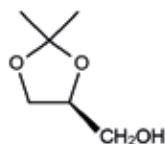
Lactate
derivatives



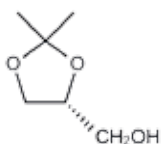
Glycerol derivatives

(S)-1,2-O-Isopropylidene-sn-glycerol
(D)-(+)-Solketal

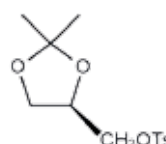
Fw: 132.16
CAS: 22323-82-6
bp: 76-78°C/12mmHg
Purity: >99%
αD: +13.8 (Neat)

(R)-2,3-O-Isopropylidene-sn-glycerol
(L)-(-)-Solketal

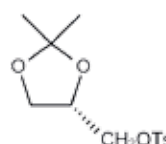
Fw: 132.16
CAS: 14347-78-5
bp: 72-73°C/8mmHg
Purity: >98%
αD: -13.5 (Neat)

1,2-O-Isopropylidene-3-O-tosyl-sn-glycerol
(D)-(+)-3-O-Tosyl-solketal

Fw: 286.35
CAS: 23735-43-5
mp: ~38°C
Purity: >97%
αD: +4° (EtOH)

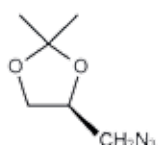
(R)-2,3-Isopropylidene-1-O-tosyl (-)-glycerol
L-(-)-1-Tosyl solketal

Fw: 286.34
CAS: 23788-74-1
mp: 42-43°C
Purity: >97%
αD: -3° (EtOH)



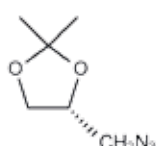
(S)-1-Azido-2,3-O-isopropylidene propanediol

on request



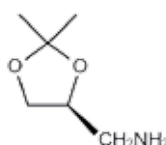
(R)-3-Azido-1,2-O-isopropylidene propanediol

on request



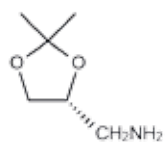
(S)-1-Amino-2,3-O-isopropylidene propanediol

on request



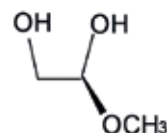
(R)-3-Amino-1,2-O-isopropylidene propanediol

on request



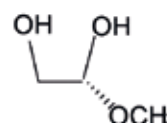
(2S)-3-Methoxy-1,2-propanediol

Fw: 106.12
CAS: 71484-94-1
bp: 217-219°C
Purity: >98%

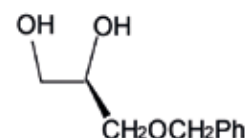


(2R)-1-Methoxy-2,3-propanediol

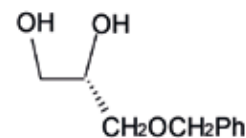
on request
Fw: 106.12

(S)-(-)-3-Benzyloxy-1,2-propanediol
1-O-Benzyl-sn-glycerol

Fw: 182.22
CAS: 17325-85-8
mp: ~23°C
Purity: >99%
αD: -4.5° (CHCl₃)

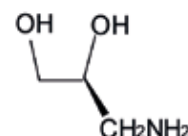
(R)-(+)-3-Benzyloxy-1,2-propanediol
3-O-benzyl-sn-glycerol

Fw: 182.22
CAS: 56552-80-8
mp: ~25°C
Purity: >99%
αD: +5° (CHCl₃)



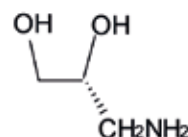
(S)-(-)-3-Amino propanediol

Fw: 91.11
CAS: 61278-21-5
mp: 56-58°C
Purity: >98%
αD: -2° (water)



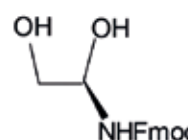
(R)-(+)-1-Amino propanediol

Fw: 91.11
CAS: 66211-46-9
mp: ~57-59°C
Purity: >98%
αD: +4° (water)



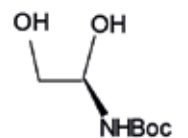
(S)-(-)-Fmoc-3-aminopropanediol

on request



(S)-(-)-Boc-3-aminopropanediol

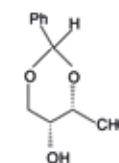
on request



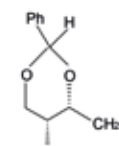
New derivatives of D-Threose

2,4-O-Benzylidene-D-Threose

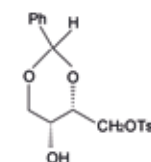
Fw: 208.21
cas: 99274-32-5
Purity: >98%
White powder.
May contain ~3% dimer

2,4-O-Benzylidene-D-threitol
1,3-O-Benzylidene-D-Threitol

Fw: 210.21
mp: 132-134°C
Purity: >98%

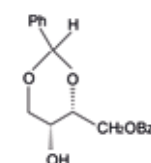
2,4-O-Benzylidene-1-O-tosyl-D-threitol
1,3-O-Benzylidene-1-tosyloxy-D-butanetriol

on request
Fw: 364.39
Purity: >98%



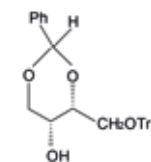
1-O-Benzoyl-2,4-O-benzylidene-D-threitol

Fw: 314.32



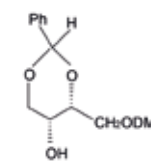
1,3-O-Benzylidene-4-O-trityl-D-threitol

Fw: 439.56
mp: 135-138°C
Purity: >97%
αD: -25° (DCM)



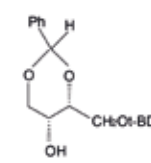
1,3-O-Benzylidene-4-O-DMT-D-threitol

Fw: 290.2
Purity: >97%



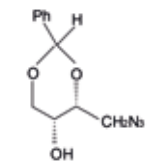
1,3-O-Benzylidene-4-O-t-butyl-dimethylsilyl-D-threitol

Fw: 262.15
Purity: >97%
αD: -21° (DCM)

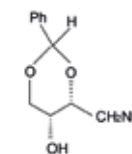


1-Azido-2,4-O-benzylidene-butane-2,3,4-triol

on request
Fw: 235.3

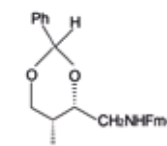
1-Amino-2,4-O-benzylidene-D-butane-2,3,4-triol
1-Amino-2,4-O-benzylidene-D-threitol

on request
Fw: 209.3

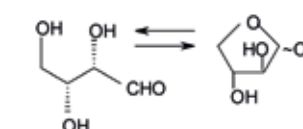


1-Fmoc amino-2,4-O-D-butane 2,3,4-triol

on request

D-Threose
(2S,3R)-2,3,4-Tri-hydroxybutanol

Fw: 120.1
CAS: 95-43-2
65-75% in water
αD: -12.3° (water)
Purity: >98%
Pale yellow syrup.



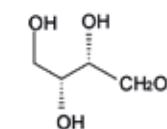
D-Threitol

Fw: 210.23

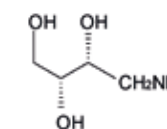
(2R,3R)-1,2,3,4-Butanetetraol

on request

Fw: 122.12
CAS: 2418-52-2
Mp: 89-90°C
αD: -14.3° (EtOH)
Purity: >99%

1-Amino-D-butane-2,3,4-triol
1-Amino-2,3,4-triol-D-butane

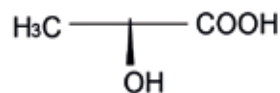
on request
Fw: 121.11



Lactate derivatives

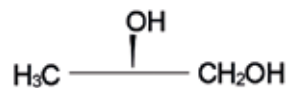
(S)-Lactic acid
L(+)-Lactic acid
(2S)-2-Hydroxy propionic acid

Fw: 90.08
CAS: 79-33-4
mp: >50°C
bp: 122 °C/12mmHg
Purity: >98%
αD: -13.5° (1N NaOH)
(as sodium lactate)



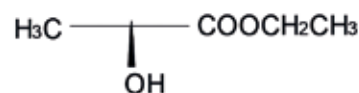
(R)-(-)- Lactic acid
D-(-)-Lactic acid
R-2-Hydroxypropionic acid

Fw: 90.08
CAS: 10326-41-7
bp: 121°C/11mmHg
Purity: >98%
αD: 14° (1N NaOH)
(as sodium lactate)



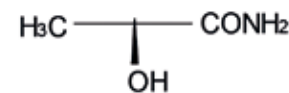
(S)-Ethyl lactate
Ethyl-L-(-) lactate

Fw: 118.13
CAS: 687-47-8
bp: 153-155°C
Purity: >99.5%
αD: -11° (neat)



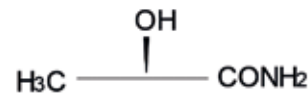
(S)-(-)-Lactamide,
(S)-(-)-2-Hydroxypropionamide

Fw: 89.09
CAS: 2043-43-8
mp: 53-55°C
Purity: >98%
αD: -20.5° (water)



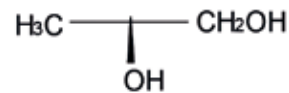
(R)-1-Lactamide
(R)-Lactamide
(R)-(+)-2-Hydroxypropionamide

Fw: 89.09
CAS: 598-81-2
mp: 52-54°C
Purity: >98%
αD: +21° (H2O)



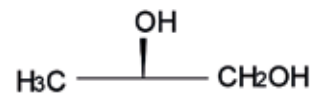
(S)-(+)-1,2-Propanediol,
(S)-(+)-Propylene glycol

Fw: 76.09
CAS: 4254-15-3
bp: 186-188°C
Purity: >98%
αD: +16° (neat)



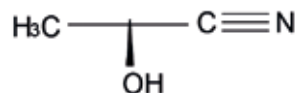
(R)-(-)-1,2-Propanediol,
(R)-1,2-Propanediol

Fw: 76.09
CAS: 4254-14-2
bp: 186-188°C
Purity: >98%
αD: -16° (neat)



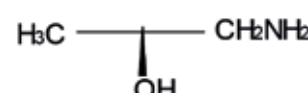
(S)-2-Hydroxypropanenitrile
(S)-1-Lactonitrile

on request
Fw: 71.07



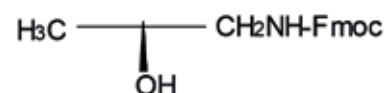
(S)-(+)-1-Amino-2-propanol
(S)-1-Amino-2-propanol

Fw: 75.11
CAS: 2799-17-9
bp: 160°C
Purity: >98%
αD: +18° (H2O)



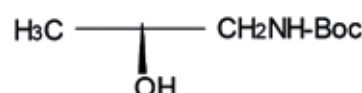
(S)-Fmoc-1-Amino-2- propanol

on request
Fw: 297.35



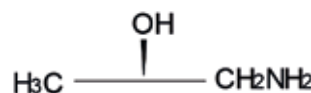
N-Boc-(S)-1-Amino-2-propanol

on request
Fw: 175.23
CAS: 167938-56-9



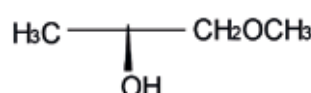
(R)-(-)-1-Amino-2-propanol
R-(-)-Hydroxypropylamine

Fw: 75.11
CAS: 2799-16-8
bp: 175°C
αD: -24° (MeOH)
αD: -18° (neat)



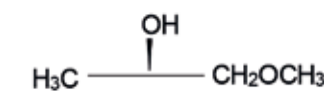
(S)-(+)- 1-Methoxy-2-propanol,
(S)- 1-Methoxy 2-propanol

Fw: 90.12
CAS: 26550-55-0
bp: 119°C
Purity: >99%
αD: +20° (CHCl3)



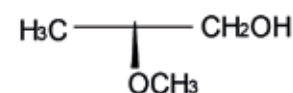
(R)-(-)-1-Methoxy-2- propanol
(R)-1-Methoxy propanol
(R)-Propylene glycol-1-O-methyl ether

Fw: 90.12
CAS: 4984-22-9
bp: 121°C
Purity: 99%
αD: -20° (CHCl3)



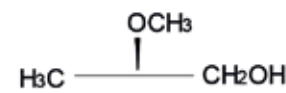
(S)- 2-Methoxy-1- propanol,
(S)-(+)-Methoxy propanol

Fw: 90.12
CAS: 1589-47-5
bp: 118°C
Purity: >98%
αD: +39° (CHCl3)



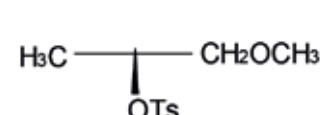
(R)-2-Methoxy propanol
(R)-(-)-2-Methoxy propanol

Fw: 90.12
bp: 118°C
Purity: >98%
αD: -38° (CHCl3)



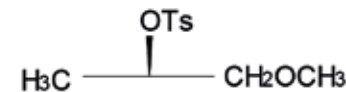
(S)-1-Methoxy-2-O-tosyl propanol

on request
Fw: 244.31



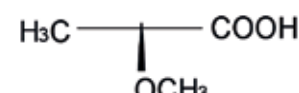
(R)-1-Methoxy-2-O-tosyl propanol

on request
Fw: 244.31



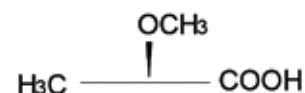
(S)-2-Methoxy propionic acid

Fw: 104.11
CAS: 23953-00-6
bp: 182°C
Purity: >98%
αD: -77° (neat)



(R)-(+)-2-Methoxy propionic acid
(R)-2-Methoxy propionic acid
(R)-2-Methoxy lactic acid

Fw: 104.11
CAS: 23943-96-6
bp: 182°C
Purity: >98%
αD: +76° (neat)



(S)-(-)-2-Methoxy propionamide
(S)-2-Methoxy propionamide
(S)-2-Methoxylactamide

Fw: 103.12
CAS: 336111-20-7
mp: 81°C
Purity: >98%



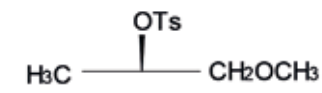
(S)-2-Methoxy-1-O-tosyl propanol

on request
Fw: 244.31



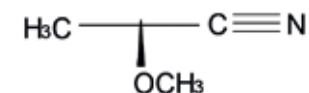
(R)-1-Methoxy-2-O-tosyl propanol

on request
Fw: 244.31



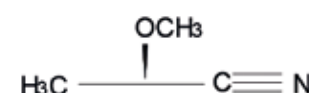
(S)-(2)-Methoxypropionitrile
(S)-2-Methoxylactonitrile

Fw: 85.1
CAS: 64531-49-3
bp: 113°C
Purity: >98%
αD: -139° (c=1, CH3OH)



(R)-(+)-2-Methoxy propionitrile
(R)-2-Methoxy propionitrile
(R)-Methoxy lactonitrile

Fw: 85.1
CAS: 299396-92-2
bp: 113°C
Purity: >97%
αD: +137° (c=1 CH3OH)



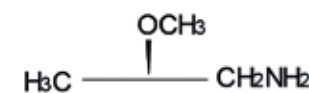
(S)-2 -Methoxy propylamine
(S)-1-Amino-2-methoxy-propane

on request
Fw: 89.14
CAS: 907943-71-9
Purity: >97%



(R)-2-Methoxy propylamine
(R)-1-Amino-2-methoxypropane

on request
Fw: 89.14
CAS: 162356-14-1





Over the years it has been our job to shape the specifications of selected chemicals, solvents or formulations to the customer's particular use.

Biosolve produces and distributes selected high purity chemicals and solvents for research, routine laboratories and industries.

We offer a wide range of our manufacturing products to the expanding local market.

An increasing share of its manufacture is exported world-wide.

Biosolve serves the traditional chemical field with the following grades of chemicals and solvents:

- Solvent
- Analytical reagent (AR)
- Pharmaceutical grades of chemicals
- Chemically pure (CP)

As our customer, you deserve excellent service, starting from the right packaging through to swift and reliable delivery. You are welcome to contact us whenever you need reliable advice about product design that best accommodates your special needs.



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