

Provided as an example
Use Calculate to see results

Additional
Information
@ACS.org

Use this to
freeze/unfreeze the
scroll lock of
Method section

AMGS Score Legend

Contribution <34% of score

Contribution 34 - 50% of score

Contribution >50% of score

Greenness
Score
Lower = Greener

Contribution to AMGS from Instruments usage


Contribution to AMGS from Solvent
Manufacturing

Contribution to AMGS from Solvent Disposal

All calculations are technique specific

Number of peaks of interest within a single run

Include all replicates of blanks, samples, standards, etc.

 **ACS Green Chemistry Institute**
Pharmaceutical Roundtable

[Calculate](#) [Print](#) [Clear](#) [Example Calculation](#) [About the Tool](#)

Method

Method Number:

Greenness Score:

Instrument Energy Score:	<input type="text" value="600.32"/>	<div>16.02%</div>
Solvent Energy Score:	<input type="text" value="1873.93"/>	<div>50.01%</div>
Solvent EHS Score:	<input type="text" value="1272.91"/>	<div>33.97%</div>

Technique:

Number of analytes of interest:

Number of injections/runs for one full analysis:

Experiment Flow Rate
Used for solvent energy,
safety & disposal
contributions

Time per individual experiment
Used for solvent & energy
contributions

Instrument Conditions

Flow Rate (mL/min):

0.6

Run time (min/injection):

28

Gradient

Time (min)

%A

%B

0

94

6

1

94

6

4

83

17

8

83

17

20

66

34

22

0

100

25

0

100

25.1

94

6

28

94

6

0

0

100

$$\Sigma = 100\%$$

Choose Mobile phase composition

Allows for flexibility in mobile phase blends

Mobile Phases

Mobile Phase A

SOLVENT 1

Water

100

SOLVENT 2

Percent

SOLVENT 3

Percent

Mobile Phase B

SOLVENT 1

Acetonitrile

90

SOLVENT 2

Water

10

SOLVENT 3

Percent

Currently supports only binary mobile phases

Sample

Sample Diluent

Sample prep volume (mL):

Total volume used for a single sample preparation

Number of sample preps:

Number of replicate sample preparations

SOLVENT 1

Water

Copy Solvents

Allows for flexibility in mobile phase blends

SOLVENT 2

Acetonitrile

Copy Solvents

Copies solvent composition to other preparation fields e.g. standard preps

SOLVENT 3

Percent

Copy Solvents

Standards

Stock Standard Diluent

Stock standard prep volume (mL):

Number of stock standard preps:

Standard Diluent

Working Standard prep volume (mL):

Number of stock standard preps:

SOLVENT 1

SOLVENT 2

SOLVENT 3

Total volume used for a stock standard preparation (optional)

Number of replicate standard preparations

Allows for flexibility in mobile phase blends

Total volume used for working standard preparation

Total volume used for a
System Suitability
standard preparation
(optional)

SST

SST Diluent

SST prep volume (mL):

25

Number of SST preps:

1

SOLVENT 1

Water

60

SOLVENT 2

Acetonitrile

40

SOLVENT 3

0

Sensitivity

Sensitivity Soin Diluent

Sensitivity Soin prep volume (mL):

200

Number of Sensitivity Soin preps:

2

SOLVENT 1

Water

100

SOLVENT 2

Percent

SOLVENT 3

Percent

Total volume used for a
Sensitivity solution
preparation
(optional)