

3.21.4.2 Reserved Words Very important part!!

GAMS, like other programming languages such as C and Java, uses reserved words (often also called keywords) that have predefined meanings. Users are in general not permitted to use these for their own definitions, neither as identifiers nor labels. The complete list of reserved words is given below. In addition, a small number of symbols constructed from non-alphanumeric characters have a meaning in GAMS.

Note

While it is not allowed to use reserved words as identifiers and labels in general, it is still possible (put not recommended) in certain cases which are explained in more detail further below.

- abort
 - acronym[s]
 - alias
 - all
 - and
 - binary
 - break
 - card
 - continue
 - diag
 - display
 - do*
 - else
 - elseif
 - endfor*
 - endif*
 - endloop*
 - endwhile*
 - eps
 - equation[s]
 - execute
 - execute_load
 - execute_loaddc
 - execute_loadhandle
 - execute_loadpoint
 - execute_unload
 - execute_unloaddi
 - execute_unloadidx
-

- [file\[s\]](#)
 - [for](#)
 - [free](#)
 - [function\[s\]](#)
 - [if](#)
 - [inf](#)
 - [integer](#)
 - [logic](#)
 - [loop](#)
 - [model\[s\]](#)
 - [na](#)
 - [negative](#)
 - [nonnegative](#)
 - [no](#)
 - [not](#)
 - [option\[s\]](#)
 - [or](#)
 - [ord](#)
 - [parameter\[s\]](#)
 - [positive](#)
 - [procedure\[s\]](#) (deprecated)
 - [prod](#)
 - [put](#)
 - [put_utility/put_utilities](#)
 - [putclear](#)
 - [putclose](#)
 - [putfmcl](#)
 - [puthd](#)
 - [putheader](#)
 - [putpage](#)
 - [puttitel](#)
 - [puttl](#)
 - [repeat](#)
 - [sameas](#)
 - [scalar\[s\]](#)
 - [semicont](#)
-

- [semiint](#)
- [set\[s\]](#)
- [singleton](#)
- [smax](#)
- [smin](#)
- [solve](#)
- [sos1](#)
- [sos2](#)
- [sum](#)
- [system](#)
- [table\[s\]](#)
- [then*](#)
- [undf](#)
- [until](#)
- [variable\[s\]](#)
- [while](#)
- [xor](#)
- [yes](#)

Attention

Some of the keywords above can actually be used as an identifier (e.g. `sameas`). But if they get used as identifier, their built-in meaning as part of the GAMS language can not be accessed anymore.

Note

The words marked with * in the list above are no reserved words by default. However, they get a special meaning if the dollar control option `$onEnd` is set.

The following list shows words which have a special meanings in GAMS (e.g. they are part of the solve statement), but can be used as identifiers anyway:

- [eq](#)
 - [eqv](#)
 - [ge](#)
 - [gt](#)
 - [imp](#)
 - [le](#)
 - [lt](#)
 - [maximizing](#)
-

- `minimizing`
- `ne`
- `scenario`
- `using`

The reserved non-alphanumeric symbols are:

- `..`
- `=l=`
- `=g=`
- `=e=`
- `=n=`
- `=x=`
- `=c=`
- `=b=`
- `--`
- `++`
- `**`
- `->`
- `<=>`

3.21.4.3 Identifiers

Identifiers are the names given to sets, parameters, variables, models, etc. GAMS requires an identifier to start with a letter followed by more letters or digits. The length of an identifier is currently limited to 63 characters. Identifiers may only contain alphanumeric characters (letters or numbers) or underscores (_). Examples of legal identifiers are:

```
a   a15   revenue   x0051
```

Note that the following identifiers are incorrect:

```
15   $casg       milk&meat
```

Attention

A name used for one data type cannot be reused for another.