

Constants

Quaestor constants and reserved parameters

Quaestor has reserved parameter names for constants and QuaestorType parameters.

You can add them to your knowledge base by simply double clicking on the parameters in the knowledge base *Quaestor>Constants*. When you click on a constant that is only relevant in relation to other constants, all related constants will be added. See QBinaries for example. The following constants are available in Quaestor.

Numbers behind constants are references to Wikipedia.

Physical constants [1]				
Constant description	Name	Value	Dimension	Domain
Gravitational acceleration [2]	Qg%	9.80665	[m/s2]	Gravitation
Gravitational constant [3]	QG	6.673*10-11	[N*m2/kg2]	Gravitation
Avogadro constant [4]	QNA	6.023*1023	[1/mol]	Quantity of matter
Gas constant [5]	QR%	8.314	[J*K-1/mol]	Thermodynamics
Boltzmann constant [6]	Qk	1.381*10-23	[J/K]	Radiation
Stefan Boltzman constant [7]	QSigma	5.670*10-8	[W*m-2/K4]	Radiation
Rydberg constant [8]	QRhc	1.097*107	[1/m]	Physics
Planck constant [9]	Qh%	6.626*10-34	[J*s]	Quantum mechanics
Light speed in vacuum [10]	Qc%	2.998*108	[m/s]	Light speed
Charge of proton [11]	Qe	1.602*10-19	[C]	Quantum mechanics
Mass of electron [12]	QMe	9.109*10-31	[kg]	Quantum mechanics
Rest energy of electron [13]	QEe	0.511	[MeV]	Quantum mechanics
One atomic mass unit [14]	Qu	1.66*10-27	[kg]	Quantity of matter
Atomic mass unit energy equivalent [15]	QEu	931.5	[MeV]	Nuclear physics
Electric constant [16]	QEps0	8.854*10-12	[F/m]	Electricity
Magnetic constant [17]	QMu0	4*PI*10-7	[H/m]	Magnetism
Bohr magneton constant [18]	QMuB	9.274*10-24	[A*m2]	Nuclear physics
Nuclear magneton constant [19]	QMuN	5.051*10-27	[A*m2]	Nuclear physics
Fine structure constant [20]	QAlpha	7.297*10-3	[-]	Physics
Compton wavelength constant of electron [21]	QLambdaC	2.426*10-12	[m]	Quantum mechanics
Bohr radius constant [22]	Qa0	5.2918*10-11	[m]	Nuclear physics
Carriage return-line feed string constant [23]	Qcrlf	CHR\$(13)+CHR\$(10)	[Str]	Standard string value
Use for version management				
Constant description	Name	Value		Domain
Indication of the knowledge base version (automatically added to any new knowledge base).	QKnowledgebaseVersion	1.0 by default changable by KE	[Str]	Quaestor
Solution title (automatically added for Taxonomies)	QSolutionTitle	-	[Str]	Quaestor
Use of binary data				

Constant description	Name	Value		Domain
Binary database object	QBInaries	-	[Obj]	Quaestor
Binary database binary value	QBinary	Part of QBinary	[Str]	Quaestor
Binary database binary ID	QBinaryID	Part of QBinary	[Str]	Quaestor
Binary database default value	QBackground	Part of QBinary	[Str]	Quaestor
Binary database number of values	QNrOfBinaries	Part of QBinary	[#]	Quaestor
Use of taxonomies				
Constant description	Name	Value		Domain
Taxonomy database	QTaxonomy	-	[Obj]	Quaestor
Taxonomy ID	QTaxonomyID	Part of QTaxonomy	[Str]	Quaestor
Entity object	QEntity	Part of QTaxonomy	[Obj]	Quaestor
Entity value comment	QEntityCom	Part of QTaxonomy	[Str]	Quaestor
Entity object data & attributes	QEntityData	Part of QTaxonomy	[Str]	Quaestor
Entity description document or image	QEntityDoc	Part of QTaxonomy	[Str]	Quaestor
Entity ID	QEntityID	Part of QTaxonomy	[Str]	Quaestor
Entity index	QEntityIndex	Part of QTaxonomy	[#]	Quaestor
Entity input values	QEntityInput	Part of QTaxonomy	[Str]	Quaestor
Entity name	QEntityName	Part of QTaxonomy	[Str]	Quaestor
Entity object reference	QEntityRef	Part of QTaxonomy	[Str]	Quaestor
Entity parameter or expression	QFrame	Part of QTaxonomy	[Str]	Quaestor
Entity parameter and expression data & attributes	QFrameData	Part of QTaxonomy	[Str]	Quaestor
Entity parameter and expression reference	QFrameRef	Part of QTaxonomy	[Str]	Quaestor
Entity parameter and expression properties	QFrameProp	Part of QTaxonomy	[Str]	Quaestor
Entity knowledge	QFrames	Part of QTaxonomy	[Obj]	Quaestor

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