

ChemSpider molecular weight search compared to NIST Exact Mass Search in Tables 1 and 2 below:

Table 1: Searching NIST by accurate mass with +/- 5 ppm window sorted by No. of Synonyms

Class of Compounds	Number Compounds in Class	Position of Compound Sorted in Descending Order by Number of References						
		#1	#2	#3	#4	#5	>#5	*NF
Drugs	45	37	5	2				1
Pesticides	8	7	1					
Toxins	2	1						1
Polymer antioxidants	15	6						9
Polymer UV Stabilizers	10	6				1		3
Polymer Clarifying agent (Irgaclear DM)	1							1
Polyurethane additives	4	2		1				1
Natural products	3	2						1
Herbicide (clofibric acid)	1		1					
Artificial sweetener (Sucralose)	1							1
Total Compounds NIST	90	61	7	3		1	0	18
Total Compounds ChemSpider	90	77	4	4		2	3	0

*NF= not found

Table 2: Searching NIST by accurate mass with +/- 5 ppm window sorted by No. of Databases

Class of Compounds	Number Compounds in Class	Position of Compound Sorted in Descending Order by Number of References						
		#1	#2	#3	#4	#5	>#5	*NF
Drugs	45	34	7	2		1		1
Pesticides	8	6	2					
Toxins	2	1						1
Polymer antioxidants	15	6						9
Polymer UV Stabilizers	10	6		1				3
Polymer Clarifying agent (Irgaclear DM)	1							1
Polyurethane additives	4	2					1(6)	1
Natural products	3	2						1
Herbicide (clofibric acid)	1		1					
Artificial sweetener (Sucralose)	1							1
Total Compounds NIST	90	57	10	3		1	1	18
Total Compounds ChemSpider	90	77	4	4		2	3	0

*NF= not found

Profile of NIST Version 11 by molecular weight:

Figure 1: NIST Entries vs MW

