

PERIODIC TABLE OF ELEMENTS (D1)

[illegible]

Lanthanides

MT

139

82

La

3+

57

P

82

140

Ce

3+

58

P

82

MT

141

Pr

3+

59

P

82

MT

144

Nd

3+

60

P

84

MT

145

Pm

2+; 3+

61

F

84

MT

150

Sm

2+

62

P

88

MT

152

Eu

2+

63

P

89

MT

157

Gd

3+

64

P

93

MT

159

Tb

3+

65

P

94

MT

163

Dy

3+

66

P

97

MT

165

Ho

3+

67

P

98

MT

167

Er

3+

68

P

99

MT

169

Tm

3+

69

P

100

MT

173

Yb

3+

70

P

103

MT

175

Lu

3+

71

P

Actinides

MT

138

88

Ac

3+

89

F

88

MT

142

Th

4+

90

P

88

MT

143

Pa

4+; 5+

91

F

88

MT

146

U

4+; 6+

92

P

88

MT

147

Np

5+

93

F

88

MT

150

Pu

4+; 6+

94

F

95

MT

152

Am

3+

95

S

96

MT

154

Cm

3+

96

S

97

MT

157

Bk

3+; 4+

97

S

98

MT

160

Cf

3+

98

S

99

MT

162

Es

3+

99

S

100

MT

167

Fm

3+

100

S

101

MT

171

Md

2+; 3+

101

S

102

MT

173

No

2+

102

S

103

MT

175

Lr

2+

103

S

Transuranium Elements

104

MT

176

Rf

2+

104

S

104

MT

179

Db

2+

105

S

104

MT

182

Sg

2+

106

S

104

MT

185

Bh

2+

107

S

104

MT

188

Hs

2+

108

S

104

MT

191

Mt

2+

109

S

104

MT

194

Ds

2+

110

S

104

MT

197

Uub

2+

112

S

104

MT

200

Uut

2+

113

S

104

MT

203

Uuq

2+

115

S

104

MT

206

Uuh

2+

117

S

104

MT

209

Uus

2+

119

S

104

MT

212

Uub

2+

121

S

104

MT

215

Uut

2+

123

S

104

MT

218

Uuq

2+

125

S

104

MT

221

Uuh

2+

127

S

104

MT

224

Uus

2+

129

S

104

MT

227

Uub

2+

131

S

104

MT

230

Uut

2+

133

S

104

MT

233

Uuq

2+

135

S

104

MT

236

Uuh

2+

137

S

104

MT

239

Uus

2+

139

S

104

MT

242

Uub

2+

141

S

104

MT

245

Uut

2+

143

S

104

MT

248

Uuq

2+

145

S

104

MT

251

Uuh

2+

147

S

104

MT

254

Uus

2+

149

S

104

MT

257

Uub

2+

151

S

104

MT

260

Uut

2+

153

S

104

MT

263

Uuq

2+

155

S

104

MT

266

Uuh

2+

157

S

104

MT

269

Uus

2+

159

S

104

MT

272

Uub

2+

161

S

104

MT

275

Uut

2+

163

S

104

MT

278

Uuq

2+

165

S

104

MT

281

Uuh

2+

167

S

104

MT

284

Uus

2+

169

S

104

MT

287

Uub

2+

171

S

104

MT

290

Uut

2+

173

S

104

MT

293

Uuq

2+

175

S

104

MT

296

Uuh

2+

177

S

104

MT

299

Uus

2+

179

S

104

MT

302

Uub

2+

181

S

104

MT

305

Uut

2+

183

S

104

MT

308

Uuq

2+

185

S

104

MT

311

Uuh

2+

187

S

104

MT

314

Uus

2+

189

S

104

MT

317

Uub

2+

191

S

104

MT

320

Uut

2+

193

S

104

MT

323

Uuq

2+

195

S

104

MT

326

Uuh

2+

197

S

104

MT

329

Uus

2+

199

S

104

MT

332

Uub

2+

201

S

104

MT

335

Uut

2+

203

S

104

MT

338

Uuq

2+

205

S

104

MT

341

Uuh

2+

207

S

104

MT

344

Uus

2+

209

S

104

MT

347

Uub

2+

211

S

104

MT

350

Uut

2+

213

S

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MT

353

Uuq

2+

215

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MT

356

Uuh

2+

217

S

104

MT

359

Uus

2+

219

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MT

362

Uub

2+

221

S

104

MT

365

Uut

2+

223

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104

MT

368

Uuq

2+

225

S

104

MT

371

Uuh

2+

227

S

104

MT

374

Uus

2+

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Uub

2+

231

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Uut

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416

Uuh

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Uus

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422

Uub

2+

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425

Uut

2+

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428

Uuq

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104

MT

431

Uuh

2+

267

S

104

MT

434

Uus

2+

269

S

104

MT

437

Uub

2+

271

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MT

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Uut

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Uuh

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Uus

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Uub

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Uuq

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Uuh

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464

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Uub

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Uut

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293

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Uuq

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Uuh

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Uus

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Uuq

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Uus

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Uub

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Uuq

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Uuh

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104

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554

Uus

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Uub

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Uut

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Uuq

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Uuh

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Uus

2+

359

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572

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361

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104

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575

Uut

2+

363

S

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MT

578

Uuq

2+

365

S

104

MT

581

Uuh

2+

367

S

104

MT

584

Uus

2+

369

S

104

MT

587

Uub

2+

371

S

104

MT

590

Uut

2+

373

S

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MT

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Uuq

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MT

596

Uuh

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377

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MT

599

Uus

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379

S

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MT

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Uub

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Uuq

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MT

611

Uuh

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387

S

104

MT

614

Uus

2+

389

S

104

MT

617

Uub

2+

391

S

104

MT

620

Uut

2+

393

S

104

MT

623

Uuq

2+

395

S

104

MT

626

Uuh

2+

397

S

104

MT

629

Uus

2+

399

S

104

MT

632

Uub

2+

401

S

104

MT

635

Uut

2+

403

S

104

MT

638

Uuq

2+

405

S

104

MT

641

Uuh

2+

407

S

104

MT

644

Uus

2+

409

S

104

MT

647

Uub

2+

411

S

104

MT

650

Uut

2+

413

S

104

MT

653

Uuq

2+

415

S

104

MT

656

Uuh

2+

417

S

104

MT

659

Uus

2+

419

S

104

MT

662

Uub

2+

421

S

104

MT

665

Uut

2+

423

S

104

MT

668

Uuq

2+

425

S

104

MT

671

Uuh

2+

427

S

104

MT

674

Uus

2+

429

S

104

MT

677

Uub

2+

431

S

104

MT

680

Uut

2+

433

S

104

MT

683

Uuq

2+

435

S

104

MT

686

Uuh

2+

437

S

104

MT

689

Uus

2+

439

S

104

MT

692

Uub

2+

441

S

104

MT

695

Uut

2+

443

S

104

MT

698

Uuq

2+

445

S

104

MT

701

Uuh

2+

447

S

104

MT

704

Uus

2+

449

S

104

MT

707

Uub

2+

451

S

104

MT

710

Uut

2+

453

S

104

MT

713

Uuq

2+

455

S

104

MT

716

Uuh

2+

457

S

104

MT

719

Uus

2+

459

S

104

MT

722

Uub

2+

461

S

104

MT

725

Uut

2+

463

S

104

MT

728

Uuq

2+

465

S

104

MT

731

Uuh

2+

467

S

104

MT

734

Uus

2+

469

S

104

MT

737

Uub

2+

471

S

104

MT

740

Uut

2+

473

S

104

MT

743

Uuq

2+

475

S

104

MT

746

Uuh

2+

477

S

104

MT

749

Uus

2+

479

S

104

MT

752

Uub

2+

481

S

104

MT

755

Uut

2+

483

S

104

MT

758

Uuq

2+

485

S

104

MT

761

Uuh

2+

487

S

104

MT

764

Uus

2+

489

S

104

MT

767

Uub

2+

491

S

104

MT

770

Uut

2+

493

S

104

MT

773

Uuq

2+

495

S

104

MT

776

Uuh

2+

497

S

104

MT

779

Uus

2+

499

S

104

MT

782

Uub

2+

501

S

104

MT

785

Uut

2+

503

S

104

MT

788

Uuq

2+

505

S

104

MT

791

Uuh

2+

507

S

104

MT

794

Uus

2+

509

S

104

MT

797

Uub

2+

511

S</

Key:

Element Representation:

1		<i>N</i>
2	<i>A</i>	3
Chemical Symbol		
Element Name		
4	<i>Z</i>	6
5		7

- 1 Simple Substance Bonding (Symbols are: **MT**, Metallic; **GC**, Giant Covalent; **MC**, Molecular Covalent; **A**, Single Atom)
- 2 Atomicity (if no number, only 1 atom is present)
- N* Neutron Number
- 3 Actinide Type (Symbols are: ●, Major; ●, Minor)
- A* Mass Number (If bracketed, element is unstable and mass number of the most stable isotope is provided)
- Z* Atomic/Proton Number
- 4 Ionic Charge
- 5 Natural Occurrence (Symbols are: **P**, Primordial; **F**, From Decay; **S**, Synthetic)
- 6 Additional Properties (Symbols are: **M**, Ferromagnetic; **N**, Noble Metal)
- 7 State of Matter/Phase at Standard Temperature and Pressure (Symbols are: ●, Solid; ●, Liquid; ●, Gas)

Block Representation:

s p d f

Electron Shell Filling Order:



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Sources:

- Simple Substance Bonding, 1 [8] [9] [10] [11] [12] [13] [14]
- Atomicity, 2 [25]
- Neutron Number, *N* [2] [3] [4] [5] [6] [7]
- Actinide Type, 3 [26]
- Mass Number, *A* [1] [4] [3] [5] [7] [23] [24]
- Chemical Symbol [1] [3] [4] [5] [7] [23] [24]
- Element Name [1] [3] [5] [7] [23] [24]
- Atomic/Proton Number, *Z* [1] [3] [4] [5] [7] [23] [24]
- Ionic Charge, 4 [5] [15] [16] [17]
- Natural Occurrence, 5 [4] [6] [8] [18] [19] [20]
- Additional Properties, 6 [5] [21] [22]
- State of Matter/Phase at Standard Temperature and Pressure, 7 [24]
- Groups [7] [20] [23]
- Electron Configuration Blocks [20] [23] [24]