

JESS Thermodynamic Database v8.9

Chemical species in reactions with Osmium

24-Jan-23

Charge	CAS	Count	Molecular formula	Mol. mass
Ala-1 Alanine ion; L-Alanine ion; L-2-Aminopropanoate ion				
-1	---	802	C(3)H(6)N(1)O(2)	88.0861
Asn-1 Asparaginate ion; L-2-Aminobutanedioate 4-amide ion; L-beta-Asparaginate ion; Aspartate beta-amide ion; Altheinate ion; Asparamide ion; Agedoite ion				
-1	---	581	C(4)H(7)N(2)O(3)	131.111
bAla-1 beta-Alanate ion				
-1	---	498	C(3)H(6)N(1)O(2)	88.0861
Cl2(g) Chlorine gas				
0	7782-50-5	589	Cl(2)	70.9060
e-1 Electron				
-1	---	3399	E(1)	0.000000
Gly-1 Glycinate ion; Aminoacetate ion				
-1	---	1356	C(2)H(4)N(1)O(2)	74.0593
H+1 Hydrogen ion; Proton				
1	12408-02-5	31679	H(1)	1.00794
H+1_OsO4_OH-1				
0	---	1	H(2)O(5)Os(1)	272.246
H+1_OsO5-2				

-1	---	1	H(1)O(5)Os(1)	271.238
H+1(2)_OsO5-2				
0	---	1	H(2)O(5)Os(1)	272.246
H2(g) Hydrogen gas; Hydrogen				
0	1333-74-0	1564	H(2)	2.01588
H2O Water				
0	7732-18-5	5947	H(2)O(1)	18.0153
Ile-1 Isoleucinate ion; L-Isoleucinate ion; 2-amino-3-methylvalerate ion; alpha-amino-beta-methylvalerate ion; 2-amino-3-methylpentanoate ion; ILeu; L-2-amino-3-methylpentanoate ion				
-1	57031-97-7	428	C(6)H(12)N(1)O(2)	130.167
Leu-1 Leucinate ion; L-Leucinate ion; 2-amino-4-methylvalerate ion; alpha-aminoisocaproate ion; 2-amino-4-methylpentanoate ion; L-2-amino-4-methylpentanoate ion				
-1	17332-93-3	511	C(6)H(12)N(1)O(2)	130.167
Met-1 Methioninate ion; L-Methioninate ion; 2-amino-4-(methylthio)butyrate ion; alpha-amino-gamma-methylmercaptobutyrate ion; 2-amino-4-methylthiobutanoate ion; L-2-amino-4-(methylthio)butanoate ion; gamma-methylthio-alpha-aminobutyrate ion; Meonine ion; Methilalanin ion; Neston ion				
-1	93375-49-6	527	C(5)H(10)N(1)O(2)S(1)	148.200
O2(g) Oxygen gas; Oxygen				
0	7782-44-7	2559	O(2)	31.9988
OH-1 Hydroxide ion				
-1	14280-30-9	6558	H(1)O(1)	17.0073
Os+2_Bipy(2)				
2	---	1	C(20)H(16)N(4)Os(1)	502.607

Os+2_Bipy(3)				
2	---	1	C(30)H(24)N(6)Os(1)	658.794
Os+2_CN-1(6)				
-4	---	1	C(6)N(6)Os(1)	346.339
Os+3 Osmium(III) ion				
3	22542-06-9	11	Os(1)	190.233
Os+3_Bipy(2)				
3	---	1	C(20)H(16)N(4)Os(1)	502.607
Os+3_Bipy(3)				
3	---	1	C(30)H(24)N(6)Os(1)	658.794
Os+3_Cl-1(3)_(s) Osmium chloride				
0	---	1	Cl(3)Os(1)	296.592
Os+3_Cl-1(6)				
-3	---	1	Cl(6)Os(1)	402.951
Os+3_CN-1(6)				
-3	---	1	C(6)N(6)Os(1)	346.339
Os+3_Thiourea				
3	---	1	C(1)H(4)N(2)Os(1)S(1)	266.349
Os+3_Thiourea(2)				
3	---	1	C(2)H(8)N(4)Os(1)S(2)	342.465
Os+3_Thiourea(3)				
3	---	1	C(3)H(12)N(6)Os(1)S(3)	418.582
Os+3_Thiourea(4)				
3	---	1	C(4)H(16)N(8)Os(1)S(4)	494.698

Os+3_Thiourea(5)				
3	---	1	C(5)H(20)N(10)Os(1)S(5)	570.814
Os+3_Thiourea(6)				
3	---	1	C(6)H(24)N(12)Os(1)S(6)	646.930
Os+4 Osmium(IV) ion				
4	22542-05-8	13	Os(1)	190.233
Os+4_Ala-1(2)				
2	---	1	C(6)H(12)N(2)O(4)Os(1)	366.405
Os+4_Asn-1				
3	---	1	C(4)H(7)N(2)O(3)Os(1)	321.344
Os+4_bAla-1(2)				
2	---	1	C(6)H(12)N(2)O(4)Os(1)	366.405
Os+4_Cl-1(6)				
-2	---	1	Cl(6)Os(1)	402.951
Os+4_Gly-1(2)				
2	---	1	C(4)H(8)N(2)O(4)Os(1)	338.352
Os+4_Ile-1(2)				
2	---	1	C(12)H(24)N(2)O(4)Os(1)	450.567
Os+4_Leu-1(2)				
2	---	1	C(12)H(24)N(2)O(4)Os(1)	450.567
Os+4_Met-1(2)				
2	---	1	C(10)H(20)N(2)O(4)Os(1)S(2)	486.633
Os+4_S-2(2)_ (s) Osmium disulfide				
0	---	1	Os(1)S(2)	254.353

Os+4_Se-2(2)_ (s) Osmium diselenide				
0	---	1	Os (1) Se (2)	348.159
Os+4_Ser-1				
3	---	1	C (3) H (6) N (1) O (3) Os (1)	294.319
Os+4_Thr-1				
3	---	1	C (4) H (8) N (1) O (3) Os (1)	308.345
Os+4_Val-1(2)				
2	---	1	C (10) H (20) N (2) O (4) Os (1)	422.513
Os+6 Osmium(VI) ion				
6	22542-04-7	1	Os (1)	190.233
Os+7 Osmium(VII) ion				
7	20215-97-8	1	Os (1)	190.233
Os+8 Osmium(VIII) ion				
8	22541-29-3	1	Os (1)	190.233
Os (g) Osmium gas				
0	---	1	Os (1)	190.233
Os (s) Osmium				
0	7440-04-2	20	Os (1)	190.233
OsO2.2H2O(s) Osmium dioxide dihydrate				
0	---	2	H (4) O (4) Os (1)	258.262
OsO2 (s) Osmium oxide; Osmium dioxide				

0	12036-02-1	5	O (2) Os (1)	222.232
OsO3 Osmium trioxide				
0	12036-24-7	2	O (3) Os (1)	238.231
OsO3_OH-1				
-1	---	1	H (1) O (4) Os (1)	255.239
OsO3_OH-1 (2)				
-2	---	1	H (2) O (5) Os (1)	272.246
OsO4 Osmium tetroxide				
0	---	6	O (4) Os (1)	254.231
OsO4_OH-1				
-1	---	2	H (1) O (5) Os (1)	271.238
OsO4_OH-1 (2)				
-2	---	1	H (2) O (6) Os (1)	288.245
OsO4 (g) Osmium tetroxide gas				
0	---	1	O (4) Os (1)	254.231
OsO4 (s)				
0	---	1	O (4) Os (1)	254.231
OsO4 (white, s) Osmium tetroxide, white				
0	---	1	O (4) Os (1)	254.231
OsO4 (yellow, s) Osmium tetroxide, yellow				
0	20816-12-0	3	O (4) Os (1)	254.231
OsO5-2				
-2	---	3	O (5) Os (1)	270.230

OsP2 (s) Osmium diphosphide				
0	---	1	Os (1) P (2)	252.181
P (s) Phosphorus; Phosphorus, white; Phosphorous, alpha; Phosphorous, cubic				
0	7723-14-0	166	P (1)	30.9740
S (s) Sulphur, alpha; Sulphur, orthorhombic; Sulphur; Sulfur, alpha; Sulfur, orthorhombic; Sulfur; Sulfur-Rhmb				
0	7704-34-9	619	S (1)	32.0600
Se (s) Selenium, trigonal; Selenium, grey; Selenium, black; Selenium, gamma; Selenium, hexagonal (sic)				
0	7782-49-2	140	Se (1)	78.9630
Ser-1 Serinate ion; L-Serinate ion; 2-amino-3-hydroxypropionate ion; beta-hydroxyalanate ion; 2-amino-3-hydroxypropanoate ion; alpha-amino-beta-hydroxypropionate ion; L-2-amino-3-hydroxypropanoate ion				
-1	17807-54-4	708	C (3) H (6) N (1) O (3)	104.086
Thiourea Thiocarbamide; Thiourea; tu				
0	62-56-6	261	C (1) H (4) N (2) S (1)	76.1162
Thr-1 Threoninate ion; L-Threoninate ion; 2-amino-3-hydroxybutyrate ion; alpha-amino-beta-hydroxybutyrate ion; 2-amino-3-hydroxybutanoate ion; L-2-amino-3-hydroxybutanoate ion				
-1	68199-29-1	602	C (4) H (8) N (1) O (3)	118.112
Val-1 L-Valinate ion; Valinate ion; L-2-Amino-3-methylbutanoate ion				
-1	---	582	C (5) H (10) N (1) O (2)	116.140