

DYSPROSIUM

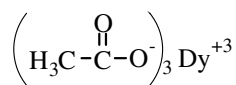
Dy

Atomic number
66
Atomic weight
162.50
CAS number
7429-91-6
Boiling point
2567°C
Melting point
1412°C
Specific gravity (25°C)
8.551

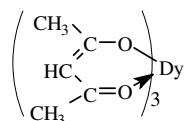
Crystal form
hexagonal
Electrical resistivity (20°C)
73μΩ • cm
Enthalpy of melting
5.24kJ/mol
Enthalpy of vaporization
280kJ/mol
Ionization potential
(spectral) 5.93eV (I)
11.67eV (II)
(aqueous) 2.29V (+3)

Oxidation states
0, 2, 3, 4
Electronegativity, Pauling
1.1
Specific heat (25°C)
0.049 cal/g K
Thermal conductivity (25°C)
11.3w/m K

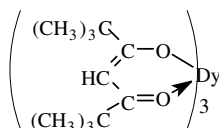
name	MW	bp/mm (mp)	D ₄ ²⁰	n _D ²⁰
COMPOUNDS				



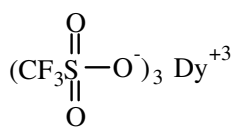
CXDY010
DYSPROSIUM ACETATE, hydrate
C₆H₉O₆Dy•xH₂O
[15280-55-4] HMIS: 2-1-0-X
339.64 (120°)mp-d.
25g/\$24.00



AKD270
DYSPROSIUM 2,4-PENTANEDIONATE
C₁₅H₂₁O₆Dy
[14637-88-8] HMIS: 2-1-0-X
459.83 (134-7°)mp
1.0g/\$24.00 5.0g/\$96.00



AKD272
DYSPROSIUM 2,2,6,6-TETRAMETHYL-3,5-HEPTANEDIONATE
C₃₃H₅₇O₆Dy
[15522-69-7] HMIS: 2-1-0-X
712.31 (182-5°)mp
ΔHsub: 31.9 kcal/mole
1.0g/28.00 5.0g/\$112.00



CXDY083
DYSPROSIUM TRIFLUOROMETHANE-SULFONATE
C₃F₉O₃S₃Dy
water tolerant Lewis acid employed in reaction of silyl enol ethers w/aldehydes¹.
1. S. Kobayasi et al, J. Org. Chem., 59, 3590, 1994
[139177-62-1] HMIS: 3-0-0-X
609.71 5.0g/\$36.00