aluminum nitride

Formula: AlN
Mol. weight [g/mol]: 40.99

Correlations

Information	Value
Property code	cpg
Equation	$Y = A + B \cdot t + C \cdot t^2 + D \cdot t^3 + E/t^2$, $t = T/1000$
Y unit	J/mol×K
Coeff. A	3.62150e+01
Coeff. B	1.46213e+00
Coeff. C	-2.83742e-01
Coeff. D	3.37940e-02
Coeff. E	-3.97324e-01
Reference	Chase, 1998
Comment	F=510.8078, G=269.6701, H=523.0000; Data last reviewed in December, 1979
Temperature range (K), min.	298.00
Temperature range (K), max.	6000.00

Information	Value
Property code	cps
Equation	$Y = A + B \cdot t + C \cdot t^2 + D \cdot t^3 + E/t^2$, $t = T/1000$
Y unit	J/mol×K
Coeff. A	1.72326e+01
Coeff. B	8.56381e+01
Coeff. C	-8.32729e+01
Coeff. D	2.96343e+01
Coeff. E	-5.37933e-01
Reference	Chase, 1998
Comment	F=-328.0587, G=15.87020, H=-317.9844; Data last reviewed in December, 1979
Temperature range (K), min.	298.00
Temperature range (K), max.	900.00

Information	Value
Property code	cps

Equation	$Y = A + B \cdot t + C \cdot t^2 + D \cdot t^3 + E/t^2$, $t = T/1000$
Y unit	J/mol×K
Coeff. A	4.97837e+01
Coeff. B	2.23805e+00
Coeff. C	-7.42003e-01
Coeff. D	8.79520e-02
Coeff. E	-2.81300e+00
Reference	Chase, 1998
Comment	F=-341.3173, G=66.70509, H=-317.9844; Data last reviewed in December, 1979
Temperature range (K), min.	900.00
Temperature range (K), max.	3000.00

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=B8002686&Units=SI

Legend

cpg: Ideal gas heat capacity

cps: Solid phase heat capacity

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