

Aluminum iodide

Inchi: InChI=1S/2Al.6HI/h;;6*1H/q2*+3;;;;;;;;;/p-6
InchiKey: RUGFRXCOSOPHQD-UHFFFAOYSA-H
Formula: Al₂I₆
SMILES: I[Al](I)(I)[Al](I)(I)I
Mol. weight [g/mol]: 815.39
CAS: 18898-35-6

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
psub	7.00e-05	kPa	359.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	1.00e-04	kPa	361.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	1.00e-04	kPa	361.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	1.40e-04	kPa	364.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	1.90e-04	kPa	365.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies

psub	1.40e-04	kPa	365.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	1.70e-04	kPa	366.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	1.90e-04	kPa	367.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	2.50e-04	kPa	368.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	1.90e-04	kPa	368.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	1.90e-04	kPa	368.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	2.50e-04	kPa	368.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies

psub	2.50e-04	kPa	369.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	2.70e-04	kPa	371.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	3.00e-04	kPa	372.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	3.00e-04	kPa	372.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	3.00e-04	kPa	372.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	3.40e-04	kPa	372.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	3.40e-04	kPa	372.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies

psub	4.90e-04	kPa	374.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	3.90e-04	kPa	374.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	3.60e-04	kPa	374.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	4.40e-04	kPa	375.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	4.20e-04	kPa	376.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	4.90e-04	kPa	376.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	4.90e-04	kPa	376.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies

psub	5.90e-04	kPa	377.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	5.90e-04	kPa	377.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	4.90e-04	kPa	377.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	5.90e-04	kPa	377.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	5.40e-04	kPa	378.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	5.90e-04	kPa	378.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	6.30e-04	kPa	378.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies

psub	6.80e-04	kPa	380.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	7.10e-04	kPa	380.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	8.30e-04	kPa	380.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	7.80e-04	kPa	380.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	7.80e-04	kPa	381.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	7.80e-04	kPa	381.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	8.30e-04	kPa	382.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies

psub	9.30e-04	kPa	383.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	8.70e-04	kPa	383.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	1.26e-03	kPa	385.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	1.02e-03	kPa	385.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	1.12e-03	kPa	385.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	1.12e-03	kPa	385.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	1.35e-03	kPa	387.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies

psub	1.35e-03	kPa	388.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	1.35e-03	kPa	388.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	1.86e-03	kPa	389.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	1.70e-03	kPa	390.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	1.82e-03	kPa	390.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	1.74e-03	kPa	390.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	1.70e-03	kPa	391.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies

psub	2.09e-03	kPa	391.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	2.45e-03	kPa	393.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	2.14e-03	kPa	393.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	2.34e-03	kPa	393.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	2.57e-03	kPa	394.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	2.51e-03	kPa	395.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	2.82e-03	kPa	395.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies

psub	2.95e-03	kPa	396.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	3.24e-03	kPa	397.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	3.63e-03	kPa	397.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	3.47e-03	kPa	398.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
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psub	4.37e-03	kPa	401.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
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psub	5.62e-03	kPa	403.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies

psub	5.50e-03	kPa	403.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	5.62e-03	kPa	404.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
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psub	6.61e-03	kPa	405.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	7.59e-03	kPa	406.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	7.59e-03	kPa	407.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	7.76e-03	kPa	408.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies

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psub	7.94e-03	kPa	408.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	8.71e-03	kPa	408.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	9.33e-03	kPa	409.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	8.32e-03	kPa	409.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	0.01	kPa	411.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
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psub	0.01	kPa	415.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	0.02	kPa	416.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	0.02	kPa	416.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	0.02	kPa	417.00	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	0.02	kPa	417.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies
psub	0.02	kPa	419.50	Vapor Pressures of Aluminum Tribromide and Aluminum Triiodide and Their Standard Sublimation Enthalpies

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.39471e+01

Coeff. B	-4.60527e+03
Coeff. C	-1.61490e+02
Temperature range (K), min.	451.15
Temperature range (K), max.	655.15

Sources

The Yaws Handbook of Vapor

Pressure:

Vapor Pressures of Aluminum

Tribromide and Aluminum Triiodide

in The Yaws Handbook of Vapor

Pressure:

Enthalpies:

<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

<https://www.doi.org/10.1021/je9007553>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C18898356&Units=SI>

Legend

psub: Sublimation pressure

pvap: Vapor pressure

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