

sodium perrhenate

Inchi: InChI=1S/Na.4O.Re/q+1;;;;;-1;
InchiKey: KMISVFTVBOPTAI-UHFFFAOYSA-N
Formula: NaO4Re
SMILES: [Na+].[O]=[Re](=[O])(=[O])[O-]
Mol. weight [g/mol]: 273.19

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	118.80	J/mol×K	298.15	Standard state thermodynamic properties of aqueous sodium perrhenate using high dilution calorimetry up to 598.15 K
cps	122.20	J/mol×K	323.15	Standard state thermodynamic properties of aqueous sodium perrhenate using high dilution calorimetry up to 598.15 K
cps	125.50	J/mol×K	348.15	Standard state thermodynamic properties of aqueous sodium perrhenate using high dilution calorimetry up to 598.15 K
cps	128.90	J/mol×K	373.15	Standard state thermodynamic properties of aqueous sodium perrhenate using high dilution calorimetry up to 598.15 K
cps	131.80	J/mol×K	398.15	Standard state thermodynamic properties of aqueous sodium perrhenate using high dilution calorimetry up to 598.15 K

cps	135.10	J/mol×K	423.15	Standard state thermodynamic properties of aqueous sodium perrhenate using high dilution calorimetry up to 598.15 K
cps	137.20	J/mol×K	448.15	Standard state thermodynamic properties of aqueous sodium perrhenate using high dilution calorimetry up to 598.15 K
cps	139.70	J/mol×K	473.15	Standard state thermodynamic properties of aqueous sodium perrhenate using high dilution calorimetry up to 598.15 K
cps	142.30	J/mol×K	498.15	Standard state thermodynamic properties of aqueous sodium perrhenate using high dilution calorimetry up to 598.15 K
cps	144.80	J/mol×K	523.15	Standard state thermodynamic properties of aqueous sodium perrhenate using high dilution calorimetry up to 598.15 K
cps	146.90	J/mol×K	548.15	Standard state thermodynamic properties of aqueous sodium perrhenate using high dilution calorimetry up to 598.15 K
cps	148.10	J/mol×K	573.15	Standard state thermodynamic properties of aqueous sodium perrhenate using high dilution calorimetry up to 598.15 K

cps	149.40	J/mol×K	598.15	Standard state thermodynamic properties of aqueous sodium perrhenate using high dilution calorimetry up to 598.15 K
cps	1.35	J/mol×K	10.73	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	1.85	J/mol×K	11.93	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	2.49	J/mol×K	13.27	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	3.33	J/mol×K	14.76	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	4.32	J/mol×K	16.41	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	5.53	J/mol×K	18.25	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)

cps	7.03	J/mol×K	20.33	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	8.72	J/mol×K	22.59	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	10.71	J/mol×K	25.11	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	13.00	J/mol×K	27.92	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	15.68	J/mol×K	31.05	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	18.76	J/mol×K	34.52	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	22.19	J/mol×K	38.38	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)

cps	26.03	J/mol×K	42.69	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	30.06	J/mol×K	47.47	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	34.41	J/mol×K	52.79	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	38.96	J/mol×K	58.70	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	43.82	J/mol×K	65.28	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	48.84	J/mol×K	72.60	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	54.36	J/mol×K	80.75	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)

cps	60.22	J/mol×K	89.82	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	65.55	J/mol×K	99.90	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	70.99	J/mol×K	111.12	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	75.27	J/mol×K	121.23	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	79.27	J/mol×K	131.30	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	82.97	J/mol×K	141.35	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	86.41	J/mol×K	151.48	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)

cps	89.29	J/mol×K	161.57	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	92.03	J/mol×K	171.61	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	94.83	J/mol×K	181.71	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	97.27	J/mol×K	191.85	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	99.99	J/mol×K	201.95	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	102.06	J/mol×K	212.05	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	104.42	J/mol×K	222.15	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)

cps	106.27	J/mol×K	232.23	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	107.96	J/mol×K	242.31	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	109.91	J/mol×K	252.37	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	111.12	J/mol×K	262.46	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	112.56	J/mol×K	272.61	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	114.37	J/mol×K	282.70	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
cps	115.66	J/mol×K	292.71	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)

cps	117.08	J/mol×K	302.90	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I)
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Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

Standard state thermodynamic

properties of aqueous sodium

perrhenate using heat capacity and

thermodynamic functions of anion

bearing sodalites Na₈Al₆Si₆O₂₄X₂ (X =

SO₄, ReO₄, Cl, I):

<https://www.doi.org/10.1016/j.jct.2009.04.004>

<https://www.doi.org/10.1016/j.jct.2017.05.035>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=B8003008&Units=SI>

Legend

cps: Solid phase heat capacity

Latest version available from:

<https://www.chemeo.com/cid/52-907-7/sodium-perrhenate.pdf>

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