

1-Propanol

Other names: 1-Hydroxypropane; 1-Propyl alcohol; Alcohol, propyl; Alcool propilico; Alcool propylique; Ethylcarbinol; NSC 30300; Optal; Osmosol extra; Propan-1-ol; Propanol; Propanol-1; Propanole; Propanolen; Propanoli; Propyl alcohol; Propylan-propyl alcohol; Propylic alcohol; Propylowy alkohol; UN 1274; n-C₃H₇OH; n-Propan-1-ol; n-Propanol; n-Propyl alcohol; n-Propyl alkohol.

InChI: InChI=1S/C3H8O/c1-2-3-4/h4H,2-3H2,1H3

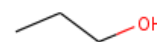
InChI Key: BDERNNFJNOPAEC-UHFFFAOYSA-N

Formula: C₃H₈O

SMILES: CCCO

Molecular Weight: 60.10

CAS: 71-23-8



Physical Properties

Property	Value	Unit	Source
PAff	786.50	kJ/mol	NIST Webbook
BasG	756.10	kJ/mol	NIST Webbook
$\Delta_c H^\circ_{\text{liquid}}$	-2021.31 ± 0.25	kJ/mol	NIST Webbook
$\Delta_c H^\circ_{\text{liquid}}$	-2019.40 ± 0.30	kJ/mol	NIST Webbook
$\Delta_c H^\circ_{\text{liquid}}$	-2021.40 ± 0.75	kJ/mol	NIST Webbook
$\Delta_c H^\circ_{\text{liquid}}$	-2017.70 ± 1.00	kJ/mol	NIST Webbook
$\Delta_c H^\circ_{\text{liquid}}$	-2032.59	kJ/mol	NIST Webbook
$\Delta_f G^\circ$	-162.44	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-255.10	kJ/mol	NIST Webbook
$\Delta_f H^\circ_{\text{gas}}$	-255.20 ± 0.30	kJ/mol	NIST Webbook
$\Delta_f H^\circ_{\text{gas}}$	-255.60 ± 1.30	kJ/mol	NIST Webbook
$\Delta_f H^\circ_{\text{gas}}$	-257.20	kJ/mol	NIST Webbook
$\Delta_f H^\circ_{\text{gas}}$	-257.30 ± 0.40	kJ/mol	NIST Webbook
$\Delta_f H^\circ_{\text{gas}}$	-254.70 ± 4.40	kJ/mol	NIST Webbook
$\Delta_f H^\circ_{\text{gas}}$	-258.80 ± 1.10	kJ/mol	NIST Webbook
$\Delta_f H^\circ_{\text{liquid}}$	-302.54 ± 0.25	kJ/mol	NIST Webbook

Property	Value	Unit	Source
$\Delta_f H^\circ_{\text{liquid}}$	-303.00 ± 1.30	kJ/mol	NIST Webbook
$\Delta_f H^\circ_{\text{liquid}}$	-304.60 ± 0.40	kJ/mol	NIST Webbook
$\Delta_f H^\circ_{\text{liquid}}$	-302.50 ± 4.20	kJ/mol	NIST Webbook
$\Delta_f H^\circ_{\text{liquid}}$	-306.30 ± 1.00	kJ/mol	NIST Webbook
$\Delta_{\text{fus}} H^\circ$	7.61	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	47.50	kJ/mol	NIST Webbook
$\Delta_{\text{vap}} H^\circ$	46.30	kJ/mol	NIST Webbook
$\Delta_{\text{vap}} H^\circ$	47.80	kJ/mol	NIST Webbook
$\Delta_{\text{vap}} H^\circ$	45.70	kJ/mol	NIST Webbook
$\Delta_{\text{vap}} H^\circ$	49.20	kJ/mol	NIST Webbook
$\Delta_{\text{vap}} H^\circ$	47.41 ± 0.08	kJ/mol	NIST Webbook
$\Delta_{\text{vap}} H^\circ$	47.40	kJ/mol	NIST Webbook
$\Delta_{\text{vap}} H^\circ$	47.49 ± 0.02	kJ/mol	NIST Webbook
$\Delta_{\text{vap}} H^\circ$	47.49 ± 0.02	kJ/mol	NIST Webbook
$\Delta_{\text{vap}} H^\circ$	47.30 ± 0.10	kJ/mol	NIST Webbook
$\Delta_{\text{vap}} H^\circ$	47.32 ± 0.08	kJ/mol	NIST Webbook
$\Delta_{\text{vap}} H^\circ$	46.60	kJ/mol	NIST Webbook
$\Delta_{\text{vap}} H^\circ$	47.90 ± 0.20	kJ/mol	NIST Webbook
$\Delta_{\text{vap}} H^\circ$	47.80	kJ/mol	NIST Webbook
$\Delta_{\text{vap}} H^\circ$	47.50	kJ/mol	NIST Webbook
IE	10.22 ± 0.06	eV	NIST Webbook
IE	10.22 ± 0.07	eV	NIST Webbook
IE	10.00	eV	NIST Webbook
IE	10.15 ± 0.03	eV	NIST Webbook
IE	10.16 ± 0.03	eV	NIST Webbook
IE	10.32 ± 0.02	eV	NIST Webbook
IE	10.25	eV	NIST Webbook
IE	10.22 ± 0.04	eV	NIST Webbook

Property	Value	Unit	Source
IE	10.20	eV	NIST Webbook
IE	10.51	eV	NIST Webbook
IE	10.52 ± 0.03	eV	NIST Webbook
IE	10.51	eV	NIST Webbook
IE	10.49	eV	NIST Webbook
IE	10.48	eV	NIST Webbook
$\log P_{\text{oct/wat}}$	0.389		Crippen Method
P_c	5170.00 ± 20.00	kPa	NIST Webbook
P_c	5170.00	kPa	NIST Webbook
P_c	5168.00 ± 20.00	kPa	NIST Webbook
P_c	5168.00 ± 20.00	kPa	NIST Webbook
P_c	5170.00	kPa	NIST Webbook
P_c	5182.00 ± 10.00	kPa	NIST Webbook
P_c	5155.00	kPa	NIST Webbook
P_c	5170.00	kPa	NIST Webbook
P_c	5082.00	kPa	NIST Webbook
P_c	5218.00	kPa	NIST Webbook
P_c	5082.00	kPa	NIST Webbook
P_c	5397.00	kPa	NIST Webbook
S°_{gas}	322.49	J/mol×K	NIST Webbook
S°_{liquid}	192.80	J/mol×K	NIST Webbook
S°_{liquid}	214.20	J/mol×K	NIST Webbook
$S^\circ_{\text{solid,1 bar}}$	112.70	J/mol×K	NIST Webbook
T_{boil}	370.30 ± 0.20	K	NIST Webbook
T_{boil}	370.26 ± 0.20	K	NIST Webbook
T_{boil}	370.26 ± 0.20	K	NIST Webbook
T_{boil}	370.20 ± 0.40	K	NIST Webbook
T_{boil}	370.26 ± 0.20	K	NIST Webbook

Property	Value	Unit	Source
T_{boil}	370.26 ± 0.20	K	NIST Webbook
T_{boil}	370.28 ± 0.08	K	NIST Webbook
T_{boil}	370.30 ± 0.20	K	NIST Webbook
T_{boil}	370.40 ± 0.20	K	NIST Webbook
T_{boil}	370.30 ± 0.30	K	NIST Webbook
T_{boil}	370.10 ± 0.25	K	NIST Webbook
T_{boil}	370.60	K	NIST Webbook
T_{boil}	370.50 ± 0.20	K	NIST Webbook
T_{boil}	370.30	K	NIST Webbook
T_{boil}	370.40 ± 0.40	K	NIST Webbook
T_{boil}	370.40 ± 0.30	K	NIST Webbook
T_{boil}	370.40 ± 0.30	K	NIST Webbook
T_{boil}	370.15 ± 0.50	K	NIST Webbook
T_{boil}	370.60 ± 0.30	K	NIST Webbook
T_{boil}	370.30 ± 0.50	K	NIST Webbook
T_{boil}	370.32 ± 0.06	K	NIST Webbook
T_{boil}	370.30 ± 0.50	K	NIST Webbook
T_{boil}	370.40 ± 0.30	K	NIST Webbook
T_{boil}	370.29 ± 0.30	K	NIST Webbook
T_{boil}	370.30 ± 0.50	K	NIST Webbook
T_{boil}	370.30 ± 0.50	K	NIST Webbook
T_{boil}	370.35 ± 0.20	K	NIST Webbook
T_{boil}	370.23 ± 0.12	K	NIST Webbook
T_{boil}	370.50 ± 0.30	K	NIST Webbook
T_{boil}	370.35 ± 0.30	K	NIST Webbook
T_{boil}	370.35	K	NIST Webbook
T_{boil}	370.35 ± 0.30	K	NIST Webbook
T_{boil}	370.25 ± 0.20	K	NIST Webbook

Property	Value	Unit	Source
T_{boil}	370.44 ± 0.15	K	NIST Webbook
T_{boil}	370.30 ± 0.05	K	NIST Webbook
T_{boil}	370.40 ± 0.20	K	NIST Webbook
T_{boil}	370.23 ± 0.20	K	NIST Webbook
T_{boil}	370.00 ± 1.50	K	NIST Webbook
T_{boil}	370.00 ± 1.00	K	NIST Webbook
T_{boil}	370.35 ± 0.30	K	NIST Webbook
T_{boil}	370.38 ± 0.10	K	NIST Webbook
T_{boil}	370.60 ± 0.30	K	NIST Webbook
T_{boil}	370.34 ± 0.30	K	NIST Webbook
T_{boil}	370.40 ± 0.30	K	NIST Webbook
T_{boil}	370.70 ± 1.00	K	NIST Webbook
T_{boil}	366.70 ± 3.00	K	NIST Webbook
T_{boil}	370.60 ± 0.30	K	NIST Webbook
T_{boil}	370.00 ± 1.00	K	NIST Webbook
T_{boil}	370.40 ± 0.50	K	NIST Webbook
T_{boil}	370.00 ± 0.50	K	NIST Webbook
T_{boil}	370.59 ± 0.33	K	NIST Webbook
T_{boil}	370.40 ± 0.20	K	NIST Webbook
T_{boil}	370.20 ± 0.30	K	NIST Webbook
T_{boil}	370.30 ± 0.20	K	NIST Webbook
T_{boil}	368.70 ± 1.00	K	NIST Webbook
T_{boil}	370.40 ± 0.30	K	NIST Webbook
T_{boil}	368.60 ± 1.00	K	NIST Webbook
T_{boil}	370.00 ± 1.00	K	NIST Webbook
T_{boil}	370.40 ± 0.50	K	NIST Webbook
T_{boil}	370.60 ± 0.50	K	NIST Webbook
T_{boil}	370.34 ± 0.20	K	NIST Webbook

Property	Value	Unit	Source
T_{boil}	367.60 ± 1.00	K	NIST Webbook
T_{boil}	370.00 ± 1.00	K	NIST Webbook
T_{boil}	369.60 ± 0.50	K	NIST Webbook
T_{boil}	355.40 ± 0.30	K	NIST Webbook
T_{boil}	370.10 ± 0.50	K	NIST Webbook
T_{boil}	370.40 ± 0.50	K	NIST Webbook
T_{boil}	370.40 ± 0.40	K	NIST Webbook
T_{boil}	370.40 ± 0.30	K	NIST Webbook
T_{boil}	370.40 ± 0.30	K	NIST Webbook
T_{boil}	371.20 ± 0.50	K	NIST Webbook
T_{boil}	370.70 ± 0.60	K	NIST Webbook
T_{boil}	370.40 ± 0.50	K	NIST Webbook
T_{boil}	370.50 ± 0.50	K	NIST Webbook
T_{boil}	355.30 ± 0.50	K	NIST Webbook
T_{boil}	369.60 ± 1.00	K	NIST Webbook
T_{boil}	369.80 ± 0.40	K	NIST Webbook
T_{boil}	371.00 ± 0.30	K	NIST Webbook
T_{boil}	370.30 ± 0.20	K	NIST Webbook
T_{boil}	369.60 ± 1.00	K	NIST Webbook
T_{boil}	370.35 ± 0.03	K	NIST Webbook
T_{boil}	370.95 ± 0.10	K	NIST Webbook
T_{boil}	370.30 ± 0.30	K	NIST Webbook
T_{boil}	370.30 ± 0.05	K	NIST Webbook
T_{boil}	370.40 ± 0.10	K	NIST Webbook
T_{boil}	370.34 ± 0.07	K	NIST Webbook
T_{boil}	370.40 ± 0.50	K	NIST Webbook
T_{boil}	370.60 ± 0.50	K	NIST Webbook
T_{boil}	370.50 ± 0.50	K	NIST Webbook

Property	Value	Unit	Source
T_{boil}	370.40 ± 0.30	K	NIST Webbook
T_{boil}	370.50 ± 0.50	K	NIST Webbook
T_{boil}	370.70 ± 0.50	K	NIST Webbook
T_{boil}	370.40 ± 0.50	K	NIST Webbook
T_{boil}	370.40 ± 0.50	K	NIST Webbook
T_{boil}	370.40 ± 0.50	K	NIST Webbook
T_{boil}	370.70 ± 1.00	K	NIST Webbook
T_{boil}	370.31 ± 0.30	K	NIST Webbook
T_{boil}	370.40 ± 0.50	K	NIST Webbook
T_{boil}	370.70 ± 1.00	K	NIST Webbook
T_{boil}	370.40 ± 0.30	K	NIST Webbook
T_{boil}	371.00 ± 0.30	K	NIST Webbook
T_{boil}	370.50 ± 0.50	K	NIST Webbook
T_{boil}	370.20 ± 0.50	K	NIST Webbook
T_{boil}	370.34 ± 0.10	K	NIST Webbook
T_{boil}	370.60 ± 0.50	K	NIST Webbook
T_{boil}	370.90 ± 0.20	K	NIST Webbook
T_{boil}	370.13 ± 0.20	K	NIST Webbook
T_{boil}	370.30 ± 0.20	K	NIST Webbook
T_{boil}	371.25 ± 0.20	K	NIST Webbook
T_{boil}	370.34 ± 0.05	K	NIST Webbook
T_{boil}	370.33 ± 0.05	K	NIST Webbook
T_{boil}	370.35 ± 0.05	K	NIST Webbook
T_{boil}	370.40 ± 0.50	K	NIST Webbook
T_{boil}	370.20 ± 0.50	K	NIST Webbook
T_{boil}	369.80 ± 0.30	K	NIST Webbook
T_{boil}	369.90 ± 0.50	K	NIST Webbook
T_{boil}	370.40 ± 0.30	K	NIST Webbook

Property	Value	Unit	Source
T_{boil}	370.37 ± 0.10	K	NIST Webbook
T_{boil}	369.60 ± 1.00	K	NIST Webbook
T_{boil}	370.30 ± 0.50	K	NIST Webbook
T_{boil}	370.60 ± 0.30	K	NIST Webbook
T_{boil}	370.41 ± 0.20	K	NIST Webbook
T_{boil}	370.40 ± 0.30	K	NIST Webbook
T_{boil}	370.40 ± 0.30	K	NIST Webbook
T_{boil}	370.50 ± 0.50	K	NIST Webbook
T_{boil}	370.00 ± 1.00	K	NIST Webbook
T_{boil}	368.70 ± 0.50	K	NIST Webbook
T_{boil}	370.34 ± 0.20	K	NIST Webbook
T_{boil}	369.80 ± 0.50	K	NIST Webbook
T_{boil}	370.40 ± 0.50	K	NIST Webbook
T_{boil}	370.40 ± 0.10	K	NIST Webbook
T_{boil}	369.20 ± 0.10	K	NIST Webbook
T_{boil}	369.30 ± 0.50	K	NIST Webbook
T_{boil}	369.90 ± 2.00	K	NIST Webbook
T_{boil}	369.75 ± 0.50	K	NIST Webbook
T_{boil}	371.00 ± 1.00	K	NIST Webbook
T_{boil}	371.00 ± 0.50	K	NIST Webbook
T_{boil}	370.60 ± 0.50	K	NIST Webbook
T_{boil}	370.56 ± 0.30	K	NIST Webbook
T_{boil}	363.00 ± 4.00	K	NIST Webbook
T_{c}	536.80 ± 0.30	K	NIST Webbook
T_{c}	537.50	K	NIST Webbook
T_{c}	536.70 ± 0.60	K	NIST Webbook
T_{c}	536.70 ± 0.60	K	NIST Webbook
T_{c}	536.70	K	NIST Webbook

Property	Value	Unit	Source
T_c	536.70	K	NIST Webbook
T_c	537.32 ± 0.10	K	NIST Webbook
T_c	536.50 ± 0.30	K	NIST Webbook
T_c	536.50 ± 0.30	K	NIST Webbook
T_c	536.50 ± 0.30	K	NIST Webbook
T_c	537.00	K	NIST Webbook
T_c	536.98	K	NIST Webbook
T_c	536.74	K	NIST Webbook
T_c	536.20	K	NIST Webbook
T_c	536.20	K	NIST Webbook
T_c	537.30	K	NIST Webbook
T_c	536.90	K	NIST Webbook
T_c	538.00 ± 2.00	K	NIST Webbook
T_c	537.20	K	NIST Webbook
T_c	543.70	K	NIST Webbook
T_c	539.00	K	NIST Webbook
T_c	536.90	K	NIST Webbook
T_c	534.20 ± 3.00	K	NIST Webbook
T_c	527.40	K	NIST Webbook
T_c	531.20	K	NIST Webbook
T_{fus}	146.95	K	NIST Webbook
T_{fus}	146.70 ± 0.50	K	NIST Webbook
T_{fus}	147.00 ± 3.00	K	NIST Webbook
T_{triple}	148.75 ± 0.02	K	NIST Webbook
T_{triple}	148.75 ± 0.02	K	NIST Webbook
T_{triple}	147.00 ± 0.30	K	NIST Webbook
V_c	0.218	$m^3/kg\text{-mol}$	NIST Webbook
V_c	0.216 ± 0.001	$m^3/kg\text{-mol}$	NIST Webbook

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,gas}$	102.26 ± 0.20	J/mol×K	371.2	NIST Webbook
$C_{p,gas}$	107.28 ± 0.96	J/mol×K	375.45	NIST Webbook
$C_{p,gas}$	108.67 ± 0.96	J/mol×K	383.05	NIST Webbook
$C_{p,gas}$	109.42 ± 0.96	J/mol×K	387.15	NIST Webbook
$C_{p,gas}$	106.44 ± 0.21	J/mol×K	391.2	NIST Webbook
$C_{p,gas}$	111.21 ± 0.96	J/mol×K	396.95	NIST Webbook
$C_{p,gas}$	113.59 ± 0.96	J/mol×K	409.95	NIST Webbook
$C_{p,gas}$	110.42 ± 0.22	J/mol×K	411.2	NIST Webbook
$C_{p,gas}$	115.56 ± 0.96	J/mol×K	420.75	NIST Webbook
$C_{p,gas}$	115.97 ± 0.96	J/mol×K	422.95	NIST Webbook
$C_{p,gas}$	114.35 ± 0.23	J/mol×K	431.2	NIST Webbook
$C_{p,gas}$	118.71 ± 0.96	J/mol×K	437.95	NIST Webbook
$C_{p,gas}$	118.62 ± 0.24	J/mol×K	451.2	NIST Webbook
$C_{p,gas}$	122.94 ± 0.96	J/mol×K	461.05	NIST Webbook
$C_{p,gas}$	125.55 ± 0.96	J/mol×K	475.35	NIST Webbook
$C_{p,gas}$	130.97 ± 0.96	J/mol×K	504.95	NIST Webbook
$C_{p,gas}$	132.23 ± 0.96	J/mol×K	511.85	NIST Webbook
$C_{p,gas}$	135.98 ± 0.96	J/mol×K	532.35	NIST Webbook
$C_{p,gas}$	141.05 ± 0.96	J/mol×K	560.05	NIST Webbook
$C_{p,gas}$	144.49 ± 0.96	J/mol×K	578.85	NIST Webbook
$C_{p,gas}$	148.95 ± 0.96	J/mol×K	603.25	NIST Webbook
$C_{p,liquid}$	136.00	J/mol×K	270.0	NIST Webbook
$C_{p,liquid}$	131.30	J/mol×K	274.6	NIST Webbook
$C_{p,liquid}$	133.50	J/mol×K	275.0	NIST Webbook
$C_{p,liquid}$	133.50	J/mol×K	275.4	NIST Webbook

Property	Value	Unit	Temperature (K)	Source
$C_{p,liquid}$	138.40	J/mol×K	288.15	NIST Webbook
$C_{p,liquid}$	141.80	J/mol×K	293.15	NIST Webbook
$C_{p,liquid}$	144.60	J/mol×K	298.0	NIST Webbook
$C_{p,liquid}$	146.10	J/mol×K	298.0	NIST Webbook
$C_{p,liquid}$	144.80	J/mol×K	298.0	NIST Webbook
$C_{p,liquid}$	145.60	J/mol×K	298.1	NIST Webbook
$C_{p,liquid}$	192.90	J/mol×K	298.1	NIST Webbook
$C_{p,liquid}$	143.96	J/mol×K	298.15	NIST Webbook
$C_{p,liquid}$	144.44	J/mol×K	298.15	NIST Webbook
$C_{p,liquid}$	146.88	J/mol×K	298.15	NIST Webbook
$C_{p,liquid}$	143.77	J/mol×K	298.15	NIST Webbook
$C_{p,liquid}$	149.00	J/mol×K	298.15	NIST Webbook
$C_{p,liquid}$	143.78	J/mol×K	298.15	NIST Webbook
$C_{p,liquid}$	143.87	J/mol×K	298.15	NIST Webbook
$C_{p,liquid}$	144.06	J/mol×K	298.15	NIST Webbook
$C_{p,liquid}$	143.80	J/mol×K	298.15	NIST Webbook
$C_{p,liquid}$	146.34	J/mol×K	298.216	NIST Webbook
$C_{p,liquid}$	164.80	J/mol×K	301.2	NIST Webbook
$C_{p,liquid}$	140.21	J/mol×K	303.0	NIST Webbook
$C_{p,liquid}$	147.90	J/mol×K	303.4	NIST Webbook
$C_{p,liquid}$	158.60	J/mol×K	313.2	NIST Webbook
$C_{p,liquid}$	155.60	J/mol×K	320.0	NIST Webbook
$C_{p,solid}$	106.30	J/mol×K	150.0	NIST Webbook
η	0.0003855	Paxs	360.22	Joback Method
$\Delta_{fus} H$	5.19	kJ/mol	147.0	NIST Webbook
$\Delta_{fus} H$	5.40	kJ/mol	148.7	NIST Webbook
$\Delta_{fus} H$	5.37	kJ/mol	148.75	NIST Webbook
$\Delta_{fus} H$	5.37	kJ/mol	148.8	NIST Webbook

Property	Value	Unit	Temperature (K)	Source
$\Delta_{\text{fus}} H$	5.37	kJ/mol	148.8	NIST Webbook
$\Delta_{\text{vap}} H$	48.00	kJ/mol	214.0	NIST Webbook
$\Delta_{\text{vap}} H$	46.40 ± 0.10	kJ/mol	313.0	NIST Webbook
$\Delta_{\text{vap}} H$	46.70	kJ/mol	318.0	NIST Webbook
$\Delta_{\text{vap}} H$	45.70 ± 0.10	kJ/mol	323.0	NIST Webbook
$\Delta_{\text{vap}} H$	49.30	kJ/mol	324.0	NIST Webbook
$\Delta_{\text{vap}} H$	46.90	kJ/mol	331.0	NIST Webbook
$\Delta_{\text{vap}} H$	44.90 ± 0.10	kJ/mol	333.0	NIST Webbook
$\Delta_{\text{vap}} H$	44.99 ± 0.42	kJ/mol	333.13	NIST Webbook
$\Delta_{\text{vap}} H$	47.00	kJ/mol	336.5	NIST Webbook
$\Delta_{\text{vap}} H$	44.00 ± 0.10	kJ/mol	343.0	NIST Webbook
$\Delta_{\text{vap}} H$	43.90 ± 0.10	kJ/mol	343.0	NIST Webbook
$\Delta_{\text{vap}} H$	45.50	kJ/mol	344.0	NIST Webbook
$\Delta_{\text{vap}} H$	43.20 ± 0.10	kJ/mol	353.0	NIST Webbook
$\Delta_{\text{vap}} H$	43.20	kJ/mol	354.0	NIST Webbook
$\Delta_{\text{vap}} H$	44.70	kJ/mol	355.0	NIST Webbook
$\Delta_{\text{vap}} H$	44.30	kJ/mol	358.0	NIST Webbook
$\Delta_{\text{vap}} H$	42.30 ± 0.10	kJ/mol	360.0	NIST Webbook
$\Delta_{\text{vap}} H$	42.40 ± 0.10	kJ/mol	363.0	NIST Webbook
$\Delta_{\text{vap}} H$	44.10	kJ/mol	364.0	NIST Webbook
$\Delta_{\text{vap}} H$	43.50	kJ/mol	366.0	NIST Webbook
$\Delta_{\text{vap}} H$	42.90	kJ/mol	368.5	NIST Webbook
$\Delta_{\text{vap}} H$	41.20 ± 0.10	kJ/mol	370.0	NIST Webbook
$\Delta_{\text{vap}} H$	41.44	kJ/mol	370.3	NIST Webbook
$\Delta_{\text{vap}} H$	41.20	kJ/mol	371.0	NIST Webbook
$\Delta_{\text{vap}} H$	40.30 ± 0.10	kJ/mol	378.0	NIST Webbook
$\Delta_{\text{vap}} H$	39.70 ± 0.10	kJ/mol	384.0	NIST Webbook
$\Delta_{\text{vap}} H$	42.30	kJ/mol	388.0	NIST Webbook

Property	Value	Unit	Temperature (K)	Source
$\Delta_{\text{vap}} H$	35.20	kJ/mol	423.0	NIST Webbook
$\Delta_{\text{vap}} H$	40.10	kJ/mol	441.5	NIST Webbook
$\Delta_{\text{vap}} H$	29.40	kJ/mol	453.0	NIST Webbook
$\Delta_{\text{vap}} H$	40.70	kJ/mol	471.0	NIST Webbook
$\Delta_{\text{vap}} H$	36.50	kJ/mol	492.5	NIST Webbook
$\Delta_{\text{vap}} H$	21.00	kJ/mol	498.0	NIST Webbook
$\Delta_{\text{vap}} H$	11.40	kJ/mol	528.0	NIST Webbook
$\Delta_{\text{fus}} S$	35.30	J/mol×K	147.0	NIST Webbook
$\Delta_{\text{fus}} S$	36.11	J/mol×K	148.75	NIST Webbook

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method

NIST Webbook: <http://webbook.nist.gov/cgi/inchi/InChI=1S/C3H8O/c1-2-3-4/h4H,2-3H2,1H3>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Legend

PAff: Proton affinity (kJ/mol).

BasG: Gas basicity (kJ/mol).

$\Delta_c H^\circ_{\text{liquid}}$: Standard liquid enthalpy of combustion (kJ/mol).

$C_{p,\text{gas}}$: Ideal gas heat capacity (J/mol×K).

$C_{p,\text{liquid}}$: Liquid phase heat capacity (J/mol×K).

$C_{p,\text{solid}}$: Solid phase heat capacity (J/mol×K).

η : Dynamic viscosity (Pa×s).

$\Delta_f G^\circ$: Standard Gibbs free energy of formation (kJ/mol).

$\Delta_f H^\circ_{\text{gas}}$: Enthalpy of formation at standard conditions (kJ/mol).

$\Delta_f H^\circ_{\text{liquid}}$: Liquid phase enthalpy of formation at standard conditions (kJ/mol).

$\Delta_{\text{fus}} H^\circ$: Enthalpy of fusion at standard conditions (kJ/mol).

$\Delta_{\text{fus}} H$: Enthalpy of fusion at a given temperature (kJ/mol).

$\Delta_{\text{vap}} H^\circ$: Enthalpy of vaporization at standard conditions (kJ/mol).

$\Delta_{\text{vap}} H$: Enthalpy of vaporization at a given temperature (kJ/mol).

IE: Ionization energy (eV).

logP_{oct/wat}: Octanol/Water partition coefficient.

P_c: Critical Pressure (kPa).

$\Delta_{\text{fus}} S$: Entropy of fusion at a given temperature (J/mol×K).

S°_{gas} : Molar entropy at standard conditions (J/mol×K).
 $S^{\circ}_{\text{liquid}}$: Liquid phase molar entropy at standard conditions (J/mol×K).
 $S^{\circ}_{\text{solid,1 bar}}$: Solid phase molar entropy at standard conditions (J/mol×K).
 T_{boil} : Normal Boiling Point Temperature (K).
 T_{c} : Critical Temperature (K).
 T_{fus} : Normal melting (fusion) point (K).
 T_{triple} : Triple Point Temperature (K).
 V_{c} : Critical Volume ($\text{m}^3/\text{kg}\cdot\text{mol}$).

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