Propane, 1-nitro-

Other names: 1-NP

1-Nitropan

1-Nitropropane N-Nitropropane

NiPar S-10 n-C3H7NO2

Inchi: InChl=1S/C3H7NO2/c1-2-3-4(5)6/h2-3H2,1H3

InchiKey: JSZOAYXJRCEYSX-UHFFFAOYSA-N

Formula: C3H7NO2

SMILES: CCC[N+](=O)[O-]

Mol. weight [g/mol]: 89.09 CAS: 108-03-2

Physical Properties

Property code	Value	Unit	Source	
af	0.3760		KDB	
chl	-2012.10 ± 1.20	kJ/mol	NIST Webbook	
chl	-2014.00 ± 0.40	kJ/mol	NIST Webbook	
chl	-2000.00	kJ/mol	NIST Webbook	
chl	-2013.40 ± 2.60	kJ/mol	NIST Webbook	
gf	9.93	kJ/mol	Joback Method	
hf	-116.01	kJ/mol	Joback Method	
hfl	-167.00 ± 0.40	kJ/mol	NIST Webbook	
hfl	-168.80 ± 1.30	kJ/mol	NIST Webbook	
hfl	-167.60 ± 2.60	kJ/mol	NIST Webbook	
hfus	14.89	kJ/mol	Joback Method	
hvap	43.39 ± 0.42	kJ/mol	NIST Webbook	
hvap	43.90	kJ/mol	NIST Webbook	
ie	10.75 ± 0.01	eV	NIST Webbook	
ie	10.95	eV	NIST Webbook	
ie	10.81 ± 0.03	eV	NIST Webbook	
ie	10.78 ± 0.03	eV	NIST Webbook	
log10ws	-0.80		Aqueous Solubility Prediction Method	
log10ws	-0.80		Estimated Solubility Method	
logp	0.673		Crippen Method	

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ripol	1248.40	NIST Webbook	
ripol	1218.00	NIST Webbook	
tb	404.70	K	KDB
tc	606.00	K	KDB
tf	168.59 ± 0.05	K	NIST Webbook
tf	169.16 ± 0.06	K	NIST Webbook
tf	165.00	K	KDB
VC	0.285	m3/kmol	Joback Method

Temperature Dependent Properties

Property code Value Unit Temperature [K] Source

cpg	133.52	J/mol×K	419.88	Joback Method	
cpg	141.31	J/mol×K	454.80	Joback Method	
cpg	148.72	J/mol×K	489.72	Joback Method	
cpg	155.75	J/mol×K	524.64	Joback Method	
cpg	162.43	J/mol×K	559.56	Joback Method	
cpg	168.75	J/mol×K	594.48	Joback Method	
cpg	174.74	J/mol×K	629.40	Joback Method	
hvapt	42.60	kJ/mol	349.00	NIST Webbook	
hvapt	40.60	kJ/mol	367.50	NIST Webbook	
rhol	996.10	kg/m3	298.15	Speed of sound as a function of temperature and pressure for propane derivatives	

Correlations

Information Value

Property code	pvap
Equation	In(Pvp) = A + B/(T + C)
Coeff. A	1.52908e+01
Coeff. B	-3.95030e+03
Coeff. C	-3.43730e+01
Temperature range (K), min.	297.67
Temperature range (K), max.	430.22

Information Value

Property code	pvap	
Equation	$ln(Pvp) = A + B/T + C*ln(T) + D*T^2$	
Coeff. A	6.95825e+01	
Coeff. B	-7.26354e+03	
Coeff. C	-7.96077e+00	
Coeff. D	4.74813e-06	
Temperature range (K), min.	169.16	
Temperature range (K), max.	605.00	

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The study of activity coefficients at infinite dilution for organic solutes and More in 1-butyl-4-methylpyridinium dicyanamide. [B4MPy][DCA] using separation of binary mixtures based on limiting activity coefficients data using setwing enemicients based intigging and physiciants based richer integral and physician setwing enemicients data using and physician setwing enemicients in the setwing enemicients at infinite dilution for organic solutes at infinite dilution for organic solutes McGower Methods in cliquid

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af: Acentric Factor

chl: Standard liquid enthalpy of combustion

cpg: Ideal gas heat capacity

gf: Standard Gibbs free energy of formation hf: Enthalpy of formation at standard conditions

hfl: Liquid phase enthalpy of formation at standard conditions

hfus: Enthalpy of fusion at standard conditions

hvap: Enthalpy of vaporization at standard conditions Enthalpy of vaporization at a given temperature hvapt:

ie: Ionization energy

log10ws: Log10 of Water solubility in mol/l logp: Octanol/Water partition coefficient mcvol: McGowan's characteristic volume

nfpaf: NFPA Fire Rating nfpah: NFPA Health Rating nfpas: NFPA Safety Rating Critical Pressure pc: Vapor pressure pvap:

rhol: Liquid Density

rinpol: Non-polar retention indices

ripol: Polar retention indices

tb: Normal Boiling Point Temperature

tc: Critical Temperature

tf: Normal melting (fusion) point

vc: Critical Volume

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