Naphthalene

Other names:	Albocarbon
	Camphor tar
	Dezodorator
	Mighty 150
	Mighty RD1
	Moth balls
	Moth flakes
	NCI-C52904
	NSC 37565
	Naftalen
	Naphthalin
	Naphthaline
	Naphthene
	Rcra waste number U165
	Tar camphor
	UN 1334
	UN 2304
	White tar
Inchi:	InChI=1S/C10H8/c1-2-6-10-8-4-3-7-9(10)5-1/h1-8H
InchiKey:	UFWIBTONFRDIAS-UHFFFAOYSA-N
Formula:	C10H8
SMILES:	c1ccc2ccccc2c1
Mol. weight [g/mol]:	128.17
CAS:	91-20-3

Physical Properties

Property code	Value	Unit	Source
af	0.3020		KDB
affp	800.00	kJ/mol	NIST Webbook
affp	802.90	kJ/mol	NIST Webbook
aigt	799.26	K	KDB
basg	774.50	kJ/mol	NIST Webbook
basg	779.40	kJ/mol	NIST Webbook
dm	0.00	debye	KDB
ea	0.15 ± 0.01	eV	NIST Webbook
ea	-0.18	eV	NIST Webbook
ea	-0.20	eV	NIST Webbook

ea	-0.20 ± 0.05	eV	NIST Webbook
ea	-0.19	eV	NIST Webbook
ea	0.14 ± 0.05	eV	NIST Webbook
ea	0.13 ± 0.04	eV	NIST Webbook
fll	0.90	% in Air	KDB
flu	5.90	% in Air	KDB
fpc	360.93	K	KDB
fpo	352.04	K	KDB
gf	223.70	kJ/mol	KDB
hcg	5156.95	kJ/mol	KDB
hcn	4980.885	kJ/mol	KDB
hf	145.60	kJ/mol	NIST Webbook
hf	150.60 ± 1.50	kJ/mol	NIST Webbook
hf	150.90	kJ/mol	NIST Webbook
hf	150.60 ± 1.10	kJ/mol	NIST Webbook
hf	141.60	kJ/mol	NIST Webbook
hf	160.10	kJ/mol	NIST Webbook
hf	151.10	kJ/mol	KDB
hf	151.70 ± 1.90	kJ/mol	NIST Webbook
hfus	19.55	kJ/mol	Solid liquid equilibria and purity determination for binary n-alkane + naphthalene systems
hfus	19.55	kJ/mol	Solid-Liquid Equilibria of Naphthalene + Alkanediamine Mixtures
hfus	19.07	kJ/mol	Odd even effect in melting properties of 12 alkane-a,x-diamides
hvap	56.60	kJ/mol	NIST Webbook
hvap	53.40	kJ/mol	NIST Webbook
hvap	60.30 ± 1.10	kJ/mol	NIST Webbook
hvap	54.60	kJ/mol	NIST Webbook
ie	8.14 ± 0.00	eV	NIST Webbook
ie	8.15	eV	NIST Webbook
ie	8.13	eV	NIST Webbook
ie	8.15	eV	NIST Webbook
ie	8.16 ± 0.03	eV	NIST Webbook
ie	8.11 ± 0.01	eV	NIST Webbook
ie	8.12 ± 0.02	eV	NIST Webbook
ie	8.13	eV	NIST Webbook
ie	8.14	eV	NIST Webbook
ie	8.12 ± 0.05	eV	NIST Webbook
ie	8.14 ± 0.01	eV	NIST Webbook
ie	8.25 ± 0.01	eV	NIST Webbook
ie	8.15	eV	NIST Webbook

ie	8.16	eV	NIST Webbook
ie	8.08	eV	NIST Webbook
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ie	8.10	eV	NIST Webbook
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ie	8.12 ± 0.01	eV	NIST Webbook
ie	8.15	eV	NIST Webbook
ie	8.14 ± 0.00	eV	NIST Webbook
log10ws	-3.62		Aqueous Solubility Prediction Method
logp	2.840		Crippen Method
mcvol	108.540	ml/mol	McGowan Method
nfpaf	%!d(float64=2)		KDB
nfpah	%!d(float64=2)		KDB
pc	4050.00	kPa	KDB
pc	4130.00	kPa	Critical Point and Vapor Pressure Measurements for Seven Compounds by a Low Residence Time Flow Method
pt	1.00	kPa	KDB
rhoc	315.30 ± 6.41	kg/m3	NIST Webbook
rhoc	314.02 ± 5.13	kg/m3	NIST Webbook
rhoc	314.79 ± 5.13	kg/m3	NIST Webbook
rhoc	320.04 ± 10.00	kg/m3	NIST Webbook
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tb	492.23 ± 0.25	K	NIST Webbook
tb	491.11 ± 0.25	K	NIST Webbook
tb	491.20	K	NIST Webbook
tb	491.05 ± 1.00	K	NIST Webbook
tb	491.14	K	KDB
tc	748.40	K	KDB
tf	353.55 ± 0.30	K	NIST Webbook
tf	356.90	K	Solubility of Naphthalene in Isobutyl Acetate, n-Butyric Acid, Ethyl Acetate, N-Methyl Pyrrolidone, N,N-Dimethylformamide, and Tetrahydrofuran
tf	353.25 ± 0.50	K	NIST Webbook
tf	353.43 ± 0.01	K	NIST Webbook
tf	353.40 ± 0.30	K	NIST Webbook
tf	354.00 ± 0.10	K	NIST Webbook
tf	353.80 ± 0.20	K	NIST Webbook
tf	352.20 ± 0.80	K	NIST Webbook
tf	353.35 ± 0.30	K	NIST Webbook
tf	353.45 ± 0.30	K	NIST Webbook
tf	353.25 ± 0.05	K	NIST Webbook
tf	353.45 ± 0.30	K	NIST Webbook
tf	353.43 ± 0.05	K	NIST Webbook
tf	353.44 ± 0.01	K	NIST Webbook
tf	353.65 ± 0.20	K	NIST Webbook
tf	353.43 ± 0.03	K	NIST Webbook
tf	353.10 ± 0.80	K	NIST Webbook
tf	353.41 ± 0.03	K	NIST Webbook
tf	353.41 ± 0.03	K	NIST Webbook
tf	353.44 ± 0.02	K	NIST Webbook
tf	353.42 ± 0.03	K	NIST Webbook
tf	353.30 ± 0.30	K	NIST Webbook
tf	353.00 ± 2.00	K	NIST Webbook
tf	353.15 ± 0.50	K	NIST Webbook
tf	353.15 ± 1.00	K	NIST Webbook
tf	353.00 ± 1.00	K	NIST Webbook
tf	353.00 ± 1.50	K	NIST Webbook
tf	348.15 ± 2.00	K	NIST Webbook
tf	353.20 ± 0.30	K	NIST Webbook

tf	353.00 ± 1.00	K	NIST Webbook
tf	353.27 ± 0.05	K	NIST Webbook
tf	353.40 ± 0.20	K	NIST Webbook
tf	354.55 ± 1.00	K	NIST Webbook
tf	353.00 ± 2.00	K	NIST Webbook
tf	353.40 ± 0.20	K	NIST Webbook
tf	353.20 ± 0.15	K	NIST Webbook
tf	353.00 ± 1.50	K	NIST Webbook
tf	352.55 ± 0.30	K	NIST Webbook
tf	352.65 ± 0.30	K	NIST Webbook
tf	352.55 ± 0.30	K	NIST Webbook
tf	352.45 ± 0.30	K	NIST Webbook
tf	352.55 ± 0.30	K	NIST Webbook
tf	353.05 ± 0.30	K	NIST Webbook
tf	353.00 ± 1.00	K	NIST Webbook
tf	353.15 ± 0.20	K	NIST Webbook
tf	353.21 ± 0.15	K	NIST Webbook
tf	353.20 ± 1.00	K	NIST Webbook
tf	353.21 ± 0.03	K	NIST Webbook
tf	353.20 ± 0.03	K	NIST Webbook
tf	353.24 ± 0.03	K	NIST Webbook
tf	353.13 ± 0.20	K	NIST Webbook
tf	353.25 ± 0.30	K	NIST Webbook
tf	353.24 ± 0.15	K	NIST Webbook
tf	352.55 ± 0.30	K	NIST Webbook
tf	353.10 ± 0.25	K	NIST Webbook
tf	352.59 ± 5.55	K	NIST Webbook
tf	353.40	K	The use of organic calibration standards in the enthalpy calibration of differential scanning calorimeters
tf	353.30	K	KDB
tf	353.43	K	Aqueous Solubility Prediction Method
tf	353.35 ± 0.30	K	NIST Webbook
tf	353.44 ± 0.02	K	NIST Webbook
tt	355.04	K	Thermodynamic Studies of Solubility for Naphthalene in 12 Solvents from 279 to 330 K
tt	353.42	K	KDB
vc	0.407	m3/kmol	KDB
vc	0.407	m3/kmol	NIST Webbook
vc	0.409 ± 0.060	m3/kmol	NIST Webbook
zc	0.2648980		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	201.60 ± 2.00	J/mol×K	451.00	NIST Webbook
cpg	226.70 ± 2.30	J/mol×K	522.70	NIST Webbook
cpl	196.06	J/mol×K	298.15	NIST Webbook
cps	159.40	J/mol×K	298.00	NIST Webbook
cps	164.80	J/mol×K	293.15	Crystal structure and thermodynamic properties of myclobutanil
cps	168.00	J/mol×K	298.15	Crystal structure and thermodynamic properties of myclobutanil
cps	161.60	J/mol×K	288.15	Crystal structure and thermodynamic properties of myclobutanil
cps	174.50	J/mol×K	308.15	Crystal structure and thermodynamic properties of myclobutanil
cps	177.80	J/mol×K	313.15	Crystal structure and thermodynamic properties of myclobutanil
cps	181.10	J/mol×K	318.15	Crystal structure and thermodynamic properties of myclobutanil
cps	184.50	J/mol×K	323.15	Crystal structure and thermodynamic properties of myclobutanil
cps	187.90	J/mol×K	328.15	Crystal structure and thermodynamic properties of myclobutanil
cps	158.40	J/mol×K	283.15	Crystal structure and thermodynamic properties of myclobutanil

cps	213.00	J/mol×K	330.00	NIST Webbook
cps	188.40	J/mol×K	342.00	NIST Webbook
cps	165.69	J/mol×K	298.15	NIST Webbook
cps	156.10	J/mol×K	298.15	NIST Webbook
cps	195.80	J/mol×K	298.10	NIST Webbook
cps	161.50	J/mol×K	298.10	NIST Webbook
cps	168.11	J/mol×K	301.58	NIST Webbook
cps	165.48	J/mol×K	294.68	NIST Webbook
cps	169.00	J/mol×K	303.00	NIST Webbook
cps	163.60	J/mol×K	295.10	NIST Webbook
cps	191.30	J/mol×K	333.15	Crystal structure and thermodynamic properties of myclobutanil
cps	171.20	J/mol×K	303.15	Crystal structure and thermodynamic properties of myclobutanil
cps	168.07	J/mol×K	297.60	NIST Webbook
dvisc	0.0003173	Pa×s	473.86	Joback Method
dvisc	0.0004574	Pa×s	403.10	Joback Method
dvisc	0.0017226	Pa×s	261.58	Joback Method
dvisc	0.0005791	Pa×s	367.72	Joback Method
dvisc	0.0003754	Pa×s	438.48	Joback Method
dvisc	0.0010984	Pa×s	296.96	Joback Method
dvisc	0.0007708	Pa×s	332.34	Joback Method
hfust	19.55	kJ/mol	354.70	NIST Webbook
hfust	19.00	kJ/mol	222.50	NIST Webbook
hfust	19.10	kJ/mol	353.40	NIST Webbook
hfust	19.10	kJ/mol	353.40	NIST Webbook
hfust	19.55	kJ/mol	354.70	NIST Webbook
hfust	19.10	kJ/mol	353.50	NIST Webbook
hfust	18.79	kJ/mol	353.00	NIST Webbook
hfust	18.79	kJ/mol	353.40	NIST Webbook
hfust	19.04	kJ/mol	353.40	NIST Webbook
hfust	16.44	kJ/mol	353.80	NIST Webbook
hfust	19.25	kJ/mol	353.00	NIST Webbook
hfust	19.10	kJ/mol	353.50	NIST Webbook
hfust	19.20	kJ/mol	353.00	NIST Webbook
hfust	18.23	kJ/mol	353.43	NIST Webbook
hfust	18.81	kJ/mol	353.44	NIST Webbook
hfust	19.02	kJ/mol	354.10	NIST Webbook
hfust	19.00	kJ/mol	353.10	NIST Webbook
hsubt	72.38	kJ/mol	279.70	NIST Webbook
hsubt	65.70	kJ/mol	297.00	NIST Webbook

hsubt	76.60	kJ/mol	256.50	NIST Webbook
hsubt	82.00	kJ/mol	293.00	NIST Webbook
hsubt	72.32	kJ/mol	298.15	NIST Webbook
hsubt	72.80	kJ/mol	327.00	NIST Webbook
hsubt	64.00 ± 0.50	kJ/mol	285.50	NIST Webbook
hsubt	88.00 ± 2.50	kJ/mol	285.00	NIST Webbook
hsubt	73.70 ± 1.00	kJ/mol	258.00	NIST Webbook
hsubt	78.00 ± 1.00	kJ/mol	344.50	NIST Webbook
hsubt	71.00 ± 4.00	kJ/mol	323.00	NIST Webbook
hsubt	73.40	kJ/mol	315.00	NIST Webbook
hsubt	72.30 ± 0.80	kJ/mol	312.00	NIST Webbook
hsubt	69.90	kJ/mol	363.00	NIST Webbook
hsubt	73.90 ± 0.20	kJ/mol	263.00	NIST Webbook
hsubt	75.80 ± 1.10	kJ/mol	303.00	NIST Webbook
hsubt	72.80 ± 0.30	kJ/mol	278.00	NIST Webbook
hsubt	72.50 ± 0.10	kJ/mol	313.50	NIST Webbook
hsubt	72.60 ± 0.60	kJ/mol	263.00	NIST Webbook
hsubt	76.00 ± 2.00	kJ/mol	363.00	NIST Webbook
hsubt	71.30	kJ/mol	292.50	NIST Webbook
hsubt	74.80 ± 0.40	kJ/mol	263.00	NIST Webbook
hsubt	72.10	kJ/mol	292.00	NIST Webbook
hsubt	72.50 ± 0.30	kJ/mol	303.00	NIST Webbook
hsubt	67.80 ± 3.50	kJ/mol	280.00	NIST Webbook
hsubt	74.40 ± 1.70	kJ/mol	316.00	NIST Webbook
hsubt	72.70 ± 1.70	kJ/mol	283.00	NIST Webbook
hsubt	72.70	kJ/mol	303.00	NIST Webbook
hsubt	66.53 ± 0.84	kJ/mol	283.00	NIST Webbook
hsubt	72.70 ± 0.30	kJ/mol	245.00	NIST Webbook
hsubt	66.30 ± 2.30	kJ/mol	354.70	NIST Webbook
hsubt	66.30	kJ/mol	279.50	NIST Webbook
hsubt	69.20	kJ/mol	268.00	NIST Webbook
hsubt	65.80	kJ/mol	293.00	NIST Webbook
hsubt	72.40	kJ/mol	286.50	NIST Webbook
hsubt	71.70	kJ/mol	333.00	NIST Webbook
hvapt	47.70	kJ/mol	427.00	NIST Webbook
hvapt	43.26	kJ/mol	491.10	KDB
hvapt	71.00	kJ/mol	339.15	Comment on Studies on Thermodynamic Properties of FOX-7 and Its Five Closed-Loop Derivatives

hvapt	54.64	kJ/mol	298.00	Enthalpies of Vaporization and Vapor Pressures of Some Deuterated Hydrocarbons. Liquid-Vapor Pressure Isotope Effects
hvapt	70.85	kJ/mol	323.00	NIST Webbook
hvapt	56.10	kJ/mol	398.00	NIST Webbook
hvapt	47.60 ± 1.80	kJ/mol	619.00	NIST Webbook
hvapt	45.40	kJ/mol	553.50	NIST Webbook
hvapt	48.70 ± 0.30	kJ/mol	400.00	NIST Webbook
hvapt	46.40	kJ/mol	440.00	NIST Webbook
hvapt	44.00	kJ/mol	480.00	NIST Webbook
hvapt	41.50	kJ/mol	520.00	NIST Webbook
hvapt	44.40	kJ/mol	563.00	NIST Webbook
hvapt	47.90	kJ/mol	515.50	NIST Webbook
hvapt	50.60	kJ/mol	426.00	NIST Webbook
hvapt	44.80	kJ/mol	528.00	NIST Webbook
hvapt	43.20	kJ/mol	613.00	NIST Webbook
hvapt	43.30	kJ/mol	705.50	NIST Webbook
hvapt	50.30 ± 0.20	kJ/mol	370.50	NIST Webbook
hvapt	44.70	kJ/mol	584.00	NIST Webbook
hvapt	50.70	kJ/mol	403.50	NIST Webbook
hvapt	49.00	kJ/mol	445.00	NIST Webbook
hvapt	46.40	kJ/mol	441.00	NIST Webbook
hvapt	48.30	kJ/mol	379.00	NIST Webbook
hvapt	47.20	kJ/mol	423.00	NIST Webbook
psub	2.30e-04	kPa	263.49	Recommended Vapor Pressure of Solid Naphthalene
psub	1.38e-03	kPa	278.49	Recommended Vapor Pressure of Solid Naphthalene
psub	1.38e-03	kPa	278.49	Recommended Vapor Pressure of Solid Naphthalene
psub	2.20e-04	kPa	263.48	Recommended Vapor Pressure of Solid Naphthalene
psub	1.39e-03	kPa	278.49	Recommended Vapor Pressure of Solid Naphthalene

psub	1.39e-03	kPa	278.49	Recommended Vapor Pressure of Solid Naphthalene
psub	1.38e-03	kPa	278.49	Recommended Vapor Pressure of Solid Naphthalene
psub	1.36e-03	kPa	278.49	Recommended Vapor Pressure of Solid Naphthalene
psub	1.37e-03	kPa	278.49	Recommended Vapor Pressure of Solid Naphthalene
psub	1.38e-03	kPa	278.49	Recommended Vapor Pressure of Solid Naphthalene
psub	1.37e-03	kPa	278.49	Recommended Vapor Pressure of Solid Naphthalene
psub	2.41e-03	kPa	283.49	Recommended Vapor Pressure of Solid Naphthalene
psub	2.41e-03	kPa	283.49	Recommended Vapor Pressure of Solid Naphthalene
psub	2.41e-03	kPa	283.49	Recommended Vapor Pressure of Solid Naphthalene
psub	4.11e-03	kPa	288.49	Recommended Vapor Pressure of Solid Naphthalene
psub	4.10e-03	kPa	288.49	Recommended Vapor Pressure of Solid Naphthalene
psub	4.10e-03	kPa	288.49	Recommended Vapor Pressure of Solid Naphthalene
psub	6.88e-03	kPa	293.49	Recommended Vapor Pressure of Solid Naphthalene
psub	6.88e-03	kPa	293.49	Recommended Vapor Pressure of Solid Naphthalene
psub	6.88e-03	kPa	293.49	Recommended Vapor Pressure of Solid Naphthalene

psub	0.01	kPa	298.49	Recommended Vapor Pressure of Solid Naphthalene
psub	0.01	kPa	298.49	Recommended Vapor Pressure of Solid Naphthalene
psub	0.01	kPa	298.49	Recommended Vapor Pressure of Solid Naphthalene
psub	0.01	kPa	298.49	Recommended Vapor Pressure of Solid Naphthalene
psub	0.01	kPa	298.49	Recommended Vapor Pressure of Solid Naphthalene
psub	0.02	kPa	303.50	Recommended Vapor Pressure of Solid Naphthalene
psub	0.02	kPa	303.50	Recommended Vapor Pressure of Solid Naphthalene
psub	0.02	kPa	303.50	Recommended Vapor Pressure of Solid Naphthalene
psub	0.02	kPa	303.50	Recommended Vapor Pressure of Solid Naphthalene
psub	0.02	kPa	303.50	Recommended Vapor Pressure of Solid Naphthalene
psub	0.02	kPa	303.50	Recommended Vapor Pressure of Solid Naphthalene
psub	0.03	kPa	308.51	Recommended Vapor Pressure of Solid Naphthalene
psub	0.03	kPa	308.51	Recommended Vapor Pressure of Solid Naphthalene
psub	0.03	kPa	308.51	Recommended Vapor Pressure of Solid Naphthalene
psub	0.03	kPa	308.51	Recommended Vapor Pressure of Solid Naphthalene

psub	0.05	kPa	313.52	Recommended Vapor Pressure of Solid Naphthalene
psub	0.05	kPa	313.52	Recommended Vapor Pressure of Solid Naphthalene
psub	0.05	kPa	313.52	Recommended Vapor Pressure of Solid Naphthalene
psub	0.05	kPa	313.52	Recommended Vapor Pressure of Solid Naphthalene
psub	2.20e-04	kPa	263.48	Recommended Vapor Pressure of Solid Naphthalene
psub	2.20e-04	kPa	263.48	Recommended Vapor Pressure of Solid Naphthalene
psub	1.10e-04	kPa	258.49	Recommended Vapor Pressure of Solid Naphthalene
psub	1.10e-04	kPa	258.49	Recommended Vapor Pressure of Solid Naphthalene
psub	1.10e-04	kPa	258.49	Recommended Vapor Pressure of Solid Naphthalene
psub	1.10e-04	kPa	258.49	Recommended Vapor Pressure of Solid Naphthalene
psub	1.10e-04	kPa	258.48	Recommended Vapor Pressure of Solid Naphthalene
psub	1.10e-04	kPa	258.48	Recommended Vapor Pressure of Solid Naphthalene
psub	1.10e-04	kPa	258.48	Recommended Vapor Pressure of Solid Naphthalene
psub	1.10e-04	kPa	258.48	Recommended Vapor Pressure of Solid Naphthalene

psub	0.92	kPa	352.19	Apparatus to measure the vapor pressure of slowly decomposing compounds from 1 Pa to 105 Pa
psub	0.65	kPa	347.19	Apparatus to measure the vapor pressure of slowly decomposing compounds from 1 Pa to 105 Pa
psub	0.65	kPa	347.19	Apparatus to measure the vapor pressure of slowly decomposing compounds from 1 Pa to 105 Pa
psub	0.46	kPa	342.19	Apparatus to measure the vapor pressure of slowly decomposing compounds from 1 Pa to 105 Pa
psub	0.32	kPa	337.21	Apparatus to measure the vapor pressure of slowly decomposing compounds from 1 Pa to 105 Pa
psub	0.32	kPa	337.21	Apparatus to measure the vapor pressure of slowly decomposing compounds from 1 Pa to 105 Pa
psub	0.22	kPa	332.21	Apparatus to measure the vapor pressure of slowly decomposing compounds from 1 Pa to 105 Pa
psub	0.14	kPa	327.21	Apparatus to measure the vapor pressure of slowly decomposing compounds from 1 Pa to 105 Pa
psub	0.10	kPa	322.21	Apparatus to measure the vapor pressure of slowly decomposing compounds from 1 Pa to 105 Pa

psub	0.06	kPa	317.21	Apparatus to measure the vapor pressure of slowly decomposing compounds from 1 Pa to 105 Pa
psub	0.04	kPa	312.20	Apparatus to measure the vapor pressure of slowly decomposing compounds from 1 Pa to 105 Pa
psub	0.04	kPa	312.20	Apparatus to measure the vapor pressure of slowly decomposing compounds from 1 Pa to 105 Pa
psub	0.14	kPa	326.97	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	0.12	kPa	324.51	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	0.09	kPa	322.08	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	0.08	kPa	319.66	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	0.06	kPa	317.21	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation

psub	0.04	kPa	312.35	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	0.03	kPa	309.69	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	0.03	kPa	307.27	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	0.02	kPa	304.88	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	0.02	kPa	302.47	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	0.01	kPa	300.06	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	0.01	kPa	297.72	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	8000.00	kPa	337.80	Solid liquid gas equilibrium of the naphthalene biphenyl CO2 system: Measurement and modeling
psub	6000.00	kPa	341.40	Solid liquid gas equilibrium of the naphthalene biphenyl CO2 system: Measurement and modeling

psub	3000.00	kPa	345.70	Solid liquid gas equilibrium of the naphthalene biphenyl CO2 system: Measurement and modeling
psub	100.00	kPa	351.40	Solid liquid gas equilibrium of the naphthalene biphenyl CO2 system: Measurement and modeling
psub	1.37e-03	kPa	278.48	Recommended Vapor Pressure of Solid Naphthalene
psub	1.37e-03	kPa	278.48	Recommended Vapor Pressure of Solid Naphthalene
psub	1.38e-03	kPa	278.48	Recommended Vapor Pressure of Solid Naphthalene
psub	1.37e-03	kPa	278.48	Recommended Vapor Pressure of Solid Naphthalene
psub	8.10e-04	kPa	273.68	Recommended Vapor Pressure of Solid Naphthalene
psub	2.20e-04	kPa	263.48	Recommended Vapor Pressure of Solid Naphthalene
psub	8.10e-04	kPa	273.68	Recommended Vapor Pressure of Solid Naphthalene
psub	8.00e-04	kPa	273.68	Recommended Vapor Pressure of Solid Naphthalene
psub	8.10e-04	kPa	273.68	Recommended Vapor Pressure of Solid Naphthalene
psub	8.00e-04	kPa	273.68	Recommended Vapor Pressure of Solid Naphthalene
psub	7.80e-04	kPa	273.49	Recommended Vapor Pressure of Solid Naphthalene

psub	7.80e-04	kPa	273.49	Recommended Vapor Pressure of Solid Naphthalene
psub	7.70e-04	kPa	273.49	Recommended Vapor Pressure of Solid Naphthalene
psub	7.80e-04	kPa	273.49	Recommended Vapor Pressure of Solid Naphthalene
psub	7.80e-04	kPa	273.48	Recommended Vapor Pressure of Solid Naphthalene
psub	7.80e-04	kPa	273.48	Recommended Vapor Pressure of Solid Naphthalene
psub	7.70e-04	kPa	273.48	Recommended Vapor Pressure of Solid Naphthalene
psub	7.80e-04	kPa	273.48	Recommended Vapor Pressure of Solid Naphthalene
psub	4.20e-04	kPa	268.48	Recommended Vapor Pressure of Solid Naphthalene
psub	4.30e-04	kPa	268.48	Recommended Vapor Pressure of Solid Naphthalene
psub	4.10e-04	kPa	268.48	Recommended Vapor Pressure of Solid Naphthalene
psub	4.20e-04	kPa	268.48	Recommended Vapor Pressure of Solid Naphthalene
psub	2.30e-04	kPa	263.49	Recommended Vapor Pressure of Solid Naphthalene
psub	2.30e-04	kPa	263.49	Recommended Vapor Pressure of Solid Naphthalene
psub	2.30e-04	kPa	263.49	Recommended Vapor Pressure of Solid Naphthalene
psub	8.00e-04	kPa	273.68	Recommended Vapor Pressure of Solid Naphthalene

psub	1.38e-03	kPa	278.49	Recommended Vapor Pressure of Solid Naphthalene
psub	0.05	kPa	314.78	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
rfi	1.58980		298.15	KDB
rhol	971.00	kg/m3	363.00	KDB
sfust	53.80	J/mol×K	353.10	NIST Webbook
sfust	53.20	J/mol×K	353.00	NIST Webbook
sfust	54.00	J/mol×K	353.50	NIST Webbook
sfust	53.70	J/mol×K	354.10	NIST Webbook
sfust	54.40	J/mol×K	353.00	NIST Webbook
sfust	51.57	J/mol×K	353.43	NIST Webbook
sfust	53.20	J/mol×K	353.40	NIST Webbook
sfust	53.90	J/mol×K	353.40	NIST Webbook
sfust	55.00	J/mol×K	353.00	NIST Webbook
srf	0.03	N/m	413.20	KDB
ssubt	242.60	J/mol×K	298.15	NIST Webbook
svapt	219.30	J/mol×K	323.00	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.39385e+01
Coeff. B	-3.59507e+03
Coeff. C	-1.04271e+02
Temperature range (K), min.	353.43
Temperature range (K), max.	520.99

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/T + C*ln(T) + D*T^2
Coeff. A	6.88881e+01
Coeff. B	-8.56370e+03
Coeff. C	-7.67060e+00

Coeff. D	2.86217e-06
Temperature range (K), min.	353.43
Temperature range (K), max.	748.35

Sources

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

af:	Acentric Factor
affp:	Proton affinity
aigt:	Autoignition Temperature
basg:	Gas basicity
cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
cps:	Solid phase heat capacity
dm:	Dipole Moment
dvisc:	Dynamic viscosity
ea:	Electron affinity
fll:	Lower Flammability Limit
flu:	Upper Flammability Limit
fpc:	Flash Point (Closed Cup Method)
fpo:	Flash Point (Open Cup Method)
gf:	Standard Gibbs free energy of formation
hcg:	Heat of Combustion, Gross form
hcn:	Heat of Combustion, Net Form
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hsubt:	Enthalpy of sublimation at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
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
pc:	Critical Pressure
psub:	Sublimation pressure
pt:	Triple Point Pressure
pvap:	Vapor pressure
rfi:	Refractive Index
rhoc:	Critical density
rhol:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
sfust:	Entropy of fusion at a given temperature
sl:	Liquid phase molar entropy at standard conditions
srf:	Surface Tension
ss:	Solid phase molar entropy at standard conditions
ssubt:	Entropy of sublimation at a given temperature
svapt:	Entropy of vaporization at a given temperature
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume
zc:	Critical Compressibility

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