

Hydrogen sulfide

Other names:	Acide sulfhydrique
	DIHYDROGEN MONOSULFIDE
	Dihydrogen sulfide
	H2S
	HYDROSULFURIC ACID
	Hepatic acid
	Hepatic gas
	Hydrogen monosulfide
	Hydrogen sulfide (H2S)
	Hydrogen sulphide
	Hydrogene sulfure
	Idrogeno solforato
	Rcra waste number U135
	SULFUR HYDRIDE
	Schwefelwasserstoff
	Sewer gas
	Siarkowodor
	Stink damp
	Sulfureted hydrogen
	Sulfuretted hydrogen
	UN 1053
	Zwavelwaterstof
Inchi:	InChI=1S/H2S/h1H2
InchiKey:	RWSOTUBLDIXVET-UHFFFAOYSA-N
Formula:	H2S
SMILES:	S
Mol. weight [g/mol]:	34.08
CAS:	7783-06-4

Physical Properties

Property code	Value	Unit	Source
af	0.0810		KDB
affp	705.00	kJ/mol	NIST Webbook
basg	673.80	kJ/mol	NIST Webbook
dm	0.90	debye	KDB
gf	-33.08	kJ/mol	KDB

gyrad	0.6040		KDB
hf	20.18	kJ/mol	KDB
hf	-20.60 ± 0.50	kJ/mol	NIST Webbook
ie	10.45 ± 0.01	eV	NIST Webbook
ie	10.43	eV	NIST Webbook
ie	10.43	eV	NIST Webbook
ie	10.50	eV	NIST Webbook
ie	10.47 ± 0.01	eV	NIST Webbook
ie	10.47	eV	NIST Webbook
ie	10.45	eV	NIST Webbook
ie	10.43	eV	NIST Webbook
ie	10.46 ± 0.01	eV	NIST Webbook
ie	10.45 ± 0.03	eV	NIST Webbook
ie	20.12	eV	NIST Webbook
ie	10.50	eV	NIST Webbook
ie	12.76	eV	NIST Webbook
ie	10.47	eV	NIST Webbook
ie	10.56 ± 0.05	eV	NIST Webbook
ie	18.00	eV	NIST Webbook
ie	14.82	eV	NIST Webbook
ie	10.48	eV	NIST Webbook
ie	12.62	eV	NIST Webbook
ie	10.47 ± 0.00	eV	NIST Webbook
ie	14.91	eV	NIST Webbook
ie	10.48	eV	NIST Webbook
ie	10.00 ± 4.00	eV	NIST Webbook
ie	10.45 ± 0.01	eV	NIST Webbook
ie	10.46 ± 0.00	eV	NIST Webbook
ie	10.42	eV	NIST Webbook
ie	10.43 ± 0.01	eV	NIST Webbook
ie	12.81	eV	NIST Webbook
ie	14.79	eV	NIST Webbook
ie	10.46 ± 0.01	eV	NIST Webbook
ie	18.00	eV	NIST Webbook
ie	20.80	eV	NIST Webbook
log10ws	-0.08		Crippen Method
logp	0.113		Crippen Method
mcvol	27.210	ml/mol	McGowan Method
nfpaf	%!d(float64=4)		KDB
nfpah	%!d(float64=3)		KDB
pc	8940.00	kPa	KDB
pc	8970.00 ± 18.00	kPa	NIST Webbook
pc	8962.91 ± 30.00	kPa	NIST Webbook
pt	23.20 ± 0.50	kPa	NIST Webbook

pt	23.18	kPa	KDB
rhoc	347.63 ± 3.41	kg/m3	NIST Webbook
rinpol	340.00		NIST Webbook
rinpol	338.00		NIST Webbook
rinpol	338.00		NIST Webbook
ripol	480.00		NIST Webbook
ripol	480.00		NIST Webbook
ripol	480.00		NIST Webbook
sgb	205.81 ± 0.05	J/molxK	NIST Webbook
tb	213.60	K	KDB
tb	212.87 ± 0.07	K	NIST Webbook
tc	373.40 ± 0.15	K	NIST Webbook
tc	373.30 ± 0.37	K	NIST Webbook
tc	373.20	K	KDB
tf	190.85 ± 1.50	K	NIST Webbook
tf	187.60	K	KDB
tt	187.66 ± 0.06	K	NIST Webbook
tt	187.67	K	KDB
tt	187.61 ± 0.03	K	NIST Webbook
vc	0.099	m3/kmol	KDB
zc	0.2852290		KDB
zra	0.28		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
dvisc	0.0000188	Paxs	461.92	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000119	Paxs	291.61	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K

dvisc	0.0000119	Paxs	292.30	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000268	Paxs	682.03	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000268	Paxs	681.36	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000258	Paxs	652.32	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000258	Paxs	652.30	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000248	Paxs	623.19	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000248	Paxs	623.07	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K

dvisc	0.0000119	Paxs	292.46	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000238	Paxs	594.02	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000238	Paxs	593.95	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000228	Paxs	565.29	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000227	Paxs	565.19	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000219	Paxs	542.61	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000219	Paxs	542.48	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K

dvisc	0.0000210	Paxs	518.75	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000210	Paxs	518.68	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000199	Paxs	490.20	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000121	Paxs	297.01	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000119	Paxs	292.77	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000188	Paxs	461.72	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000177	Paxs	433.81	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K

dvisc	0.0000177	Paxs	433.66	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000166	Paxs	405.86	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000166	Paxs	405.76	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000154	Paxs	378.19	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000154	Paxs	378.01	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000143	Paxs	350.59	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000132	Paxs	323.96	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K

dvisc	0.0000143	Paxs	350.47	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000132	Paxs	323.94	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000199	Paxs	490.09	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
dvisc	0.0000121	Paxs	296.89	Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Density in the Temperature Range from (292 to 682) K
hsubt	25.40	kJ/mol	175.50	NIST Webbook
hsubt	22.50	kJ/mol	135.00	NIST Webbook
hvapt	19.50	kJ/mol	206.50	NIST Webbook
hvapt	21.90	kJ/mol	200.00	NIST Webbook
hvapt	18.60	kJ/mol	295.50	NIST Webbook
pvap	2024.00	kPa	298.40	Measurement of VLE (TPx or TPxy data) for hydrogen sulfide + (dimethylsulfide or ethylmethylsulfide or carbon disulfide) and methane solubilities in (dimethylsulfide or ethylmethylsulfide or methylmercaptan or ethylmercaptan)

pvap	384.00	kPa	243.02	Phase Equilibria of H2S-Hydrocarbons (Propane, n-Butane, and n-Pentane) Binary Systems at Low Temperatures
pvap	167.30	kPa	222.83	Phase Equilibria of H2S-Hydrocarbons (Propane, n-Butane, and n-Pentane) Binary Systems at Low Temperatures
pvap	1029.30	kPa	273.13	Phase Equilibria of H2S-Hydrocarbons (Propane, n-Butane, and n-Pentane) Binary Systems at Low Temperatures
pvap	1030.20	kPa	273.12	Phase Equilibria of H2S-Hydrocarbons (Propane, n-Butane, and n-Pentane) Binary Systems at Low Temperatures
pvap	379.40	kPa	243.20	Phase Equilibria of H2S-Hydrocarbons (Propane, n-Butane, and n-Pentane) Binary Systems at Low Temperatures
pvap	380.20	kPa	243.18	Phase Equilibria of H2S-Hydrocarbons (Propane, n-Butane, and n-Pentane) Binary Systems at Low Temperatures

pvap	5812.00	kPa	348.45	Measurement of VLE (TPx or TPxy data) for hydrogen sulfide + (dimethylsulfide or ethylmethylsulfide or carbon disulfide) and methane solubilities in (dimethylsulfide or ethylmethylsulfide or methylmercaptan or ethylmercaptan)
pvap	1793.70	kPa	293.43	Phase Equilibria of H2S-Hydrocarbons (Propane, n-Butane, and n-Pentane) Binary Systems at Low Temperatures
pvap	3564.00	kPa	323.50	Measurement of VLE (TPx or TPxy data) for hydrogen sulfide + (dimethylsulfide or ethylmethylsulfide or carbon disulfide) and methane solubilities in (dimethylsulfide or ethylmethylsulfide or methylmercaptan or ethylmercaptan)
pvap	1033.00	kPa	273.08	Measurement of VLE (TPx or TPxy data) for hydrogen sulfide + (dimethylsulfide or ethylmethylsulfide or carbon disulfide) and methane solubilities in (dimethylsulfide or ethylmethylsulfide or methylmercaptan or ethylmercaptan)

pvap	8932.10	kPa	373.15	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa
pvap	7533.00	kPa	363.16	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa
pvap	6319.20	kPa	353.17	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa
pvap	5261.20	kPa	343.16	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa
pvap	4339.50	kPa	333.17	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa

pvap	3540.40	kPa	323.18	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa
pvap	2847.20	kPa	313.11	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa
pvap	2259.60	kPa	303.08	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa
pvap	2022.20	kPa	298.41	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa
pvap	1779.50	kPa	293.30	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa

pvap	1767.90	kPa	293.10	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa
pvap	1566.60	kPa	288.31	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa
pvap	1371.10	kPa	283.26	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa
pvap	1194.10	kPa	278.24	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa
pvap	1032.30	kPa	273.17	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa

pvap	885.70	kPa	268.02	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa
pvap	757.70	kPa	263.00	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa
pvap	644.50	kPa	258.01	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa
pvap	456.70	kPa	248.01	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa
pvap	380.10	kPa	243.04	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa

pvap	313.90	kPa	238.04	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa
pvap	257.40	kPa	233.11	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa
pvap	209.10	kPa	228.20	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa
pvap	167.40	kPa	223.19	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa
pvap	544.20	kPa	252.97	Vapour liquid equilibrium data for the hydrogen sulphide + n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa
rhoI	906.00	kg/m3	222.00	KDB

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.43785e+01
Coeff. B	-1.84720e+03
Coeff. C	-2.35400e+01
Temperature range (K), min.	187.68
Temperature range (K), max.	373.53

Sources

P.rho.T Data for Hydrogen Sulfide +
Propane from (263 to 363) K at
Pressures up to 10 MPa
1-Ethyl-3-methylimidazolium
hexafluorophosphate (PF6)
Aqueous Solutions of Piperazine in the
Binary System with Hydrogen Sulfide
(liquid-liquid)
Vapour-liquid-equilibrium data for the
hydrogen sulphide + n-heptane system
Solubility of H₂S in
1-(2-hydroxyethyl)-3-methylimidazolium
ionic liquids with different anions:

<https://www.doi.org/10.1021/je100851w>

<https://www.doi.org/10.1021/je100794k>

<https://www.doi.org/10.1021/je900721q>

<https://www.doi.org/10.1016/j.fluid.2011.04.010>

<https://www.doi.org/10.1016/j.fluid.2006.09.021>

<https://www.doi.org/10.1016/j.fluid.2010.08.027>

<https://www.chemic.org/files/research/kdb/mol/mol1917.mol>

Phase Equilibria of H₂S-Hydrocarbons (Propane, n-Butane, and n-Pentane) Binary Systems at Low Temperatures: equilibrium modeling of systems NCGs and glycol :

<https://www.doi.org/10.1021/je300111m>

<https://www.doi.org/10.1016/j.fluid.2011.12.025>

<http://link.springer.com/article/10.1007/BF02311772>

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws

[illegible]

<https://www.doi.org/10.1016/j.jct.2006.03.013>

<https://www.doi.org/10.1016/j.ijct.2013.07.022>

• <https://www.doi.org/10.1016/j.fluid.2014.06.026>

<https://www.doi.org/10.1016/j.ijct.2018.10.013>

<https://www.doi.org/10.1021/acs.jced.5b00680>

<https://www.doi.org/10.1021/ie900716a>

<https://www.doi.org/10.1016/j.fluid.2016.04.024>

<https://www.doi.org/10.1016/j.fluid.2014.09.025>

<https://www.doi.org/10.1016/j.ijct.2015.01.001>

<https://www.doi.org/10.1016/j.fluid.2013.07.050>

<https://www.doi.org/10.1016/j.ijct.2013.03.009>

<https://www.doi.org/10.1021/acs.iced.7b01004>

<https://www.doi.org/10.1016/j.fluid.2017.08.003>

<https://www.doi.org/10.1016/j.ijet.2009.04.014>

Measuring the density and viscosity of H₂S-loaded aqueous diisopropanolamine solution: Experimental Method

<https://www.doi.org/10.1016/j.jct.2016.06.007>

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

<https://www.doi.org/10.1021/je200371n>

Reference Viscosities of Gaseous Methane and Hydrogen Sulfide at Low Pressure and Temperature Range from 100 to 300 K:

<https://www.doi.org/10.1007/s10765-007-0185-z>

High pressure measurement and CPA equation of state for solubility of methane and hydrogen sulfide in aqueous diisopropanolamine solution: Experimental investigation of hydrogen sulfide solubility in aqueous sulfolane

<https://www.doi.org/10.1016/j.jct.2015.04.032>

<https://www.doi.org/10.1016/j.jct.2018.12.005>

<https://www.doi.org/10.1016/j.fluid.2008.05.001>

1-ethyl-3-methylimidazolium tetrafluoroborate: The solubility of CO₂, H₂S and their mixture in the ionic liquid

<https://www.doi.org/10.1016/j.jct.2013.05.038>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7783064&Units=SI>

1-ethyl-3-methylimidazolium hexafluorophosphate: Experimental measurements of H₂S solubility in aqueous diisopropanolamine solutions

<https://www.doi.org/10.1016/j.fluid.2012.11.009>

Experimental investigation of hydrogen sulfide solubility in aqueous sulfolane

<https://www.doi.org/10.1016/j.jct.2016.11.025>

<https://www.doi.org/10.1021/je2005243>

Diisopropanolamine + Piperazine Solutions: New Liquid Phase Data and

<https://www.doi.org/10.1021/acs.jced.5b00318>

Modeling of the Liquid Phase Cubic Equations of State for the Binary

<https://www.doi.org/10.1016/j.fluid.2007.07.013>

Systems of Carbon Dioxide and Hexane

<https://www.doi.org/10.1016/j.jct.2019.02.024>

Experimental investigation of hydrogen sulfide solubility in aqueous sulfolane

<https://www.doi.org/10.1021/je8009495>

1-ethyl-3-methylimidazolium hexafluorophosphate: The solubility of CO₂, H₂S and their mixture in the ionic liquid

<https://www.doi.org/10.1021/acs.jced.5b00669>

Experimental and modelling investigation of H₂S solubility in

<https://www.doi.org/10.1016/j.jct.2019.03.031>

Experimental and modelling study of the densities of the hydrogen sulphide

<https://www.doi.org/10.1016/j.fluid.2016.08.002>

Experimental investigation of hydrogen sulfide solubility in aqueous sulfolane

<https://www.doi.org/10.1021/je500496y>

Experimental investigation of hydrogen sulfide solubility in aqueous sulfolane

<https://www.doi.org/10.1016/j.fluid.2010.01.013>

Experimental investigation of hydrogen sulfide solubility in aqueous sulfolane

<https://www.doi.org/10.1016/j.jct.2019.02.022>

Experimental investigation of hydrogen sulfide solubility in aqueous sulfolane

<https://www.doi.org/10.1021/je050157c>

Experimental investigation of hydrogen sulfide solubility in aqueous sulfolane

<https://www.doi.org/10.1021/je500478t>

Experimental investigation of hydrogen sulfide solubility in aqueous sulfolane

<https://www.doi.org/10.1016/j.jct.2017.11.014>

Experimental investigation of hydrogen sulfide solubility in aqueous sulfolane

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

Experimental investigation of hydrogen sulfide solubility in aqueous sulfolane

<https://www.doi.org/10.1016/j.fluid.2014.01.020>

Experimental investigation of hydrogen sulfide solubility in aqueous sulfolane

<https://www.doi.org/10.1021/je1004005>

Experimental investigation of hydrogen sulfide solubility in aqueous sulfolane

<https://www.doi.org/10.1016/j.jct.2016.04.012>

Experimental investigation of hydrogen sulfide solubility in aqueous sulfolane

Legend

af:	Acentric Factor
affp:	Proton affinity
basg:	Gas basicity
dm:	Dipole Moment
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
gyrad:	Radius of Gyration
hf:	Enthalpy of formation at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature

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
pt:	Triple Point Pressure
pvap:	Vapor pressure
rhoc:	Critical density
rho:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
sgb:	Molar entropy at standard conditions (1 bar)
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume
zc:	Critical Compressibility
zra:	Rackett Parameter

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